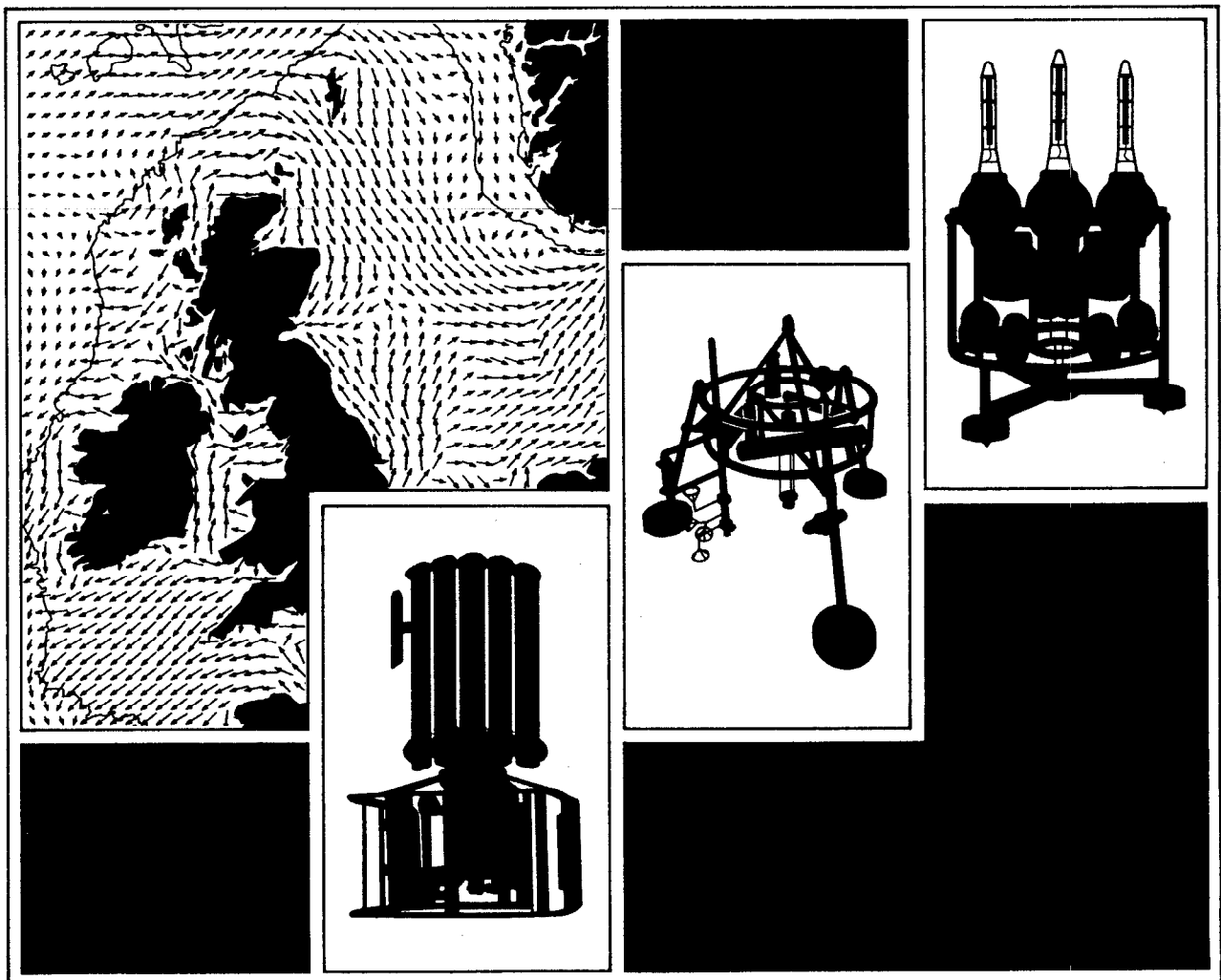


Analysis of STABLE Data From Deployment 1,
Holderness, UK
October, 1994

J.J. Williams, J.D. Humphery, S.P. Moores & D. Clipson
Report No. 42 1996



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ABSTRACT <p style="text-align: center;"> This report describes analysis of data obtained using the POL STABLE rig deployed off the Holderness coast during October, 1994 as part of the LOIS RACS(C)-I experiment. Data from electromagnetic current meters and a sensitive pressure sensor are utilised to examine local hydrodynamic conditions arising through interactions between tidal currents and waves. The average concentration of suspended particulate matter (SPM), measured using optical and acoustic devices are described and observed temporal variability in SPM time series is examined using concurrent hydrodynamic information. Recommendations for further research are stated. An electronic data base containing selected STABLE data accompanies this report. </p>	
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1.0 Introduction

The report describes the analysis of data from STABLE (Sediment Transport And Boundary Layer Equipment, *Figure 1a, Humphery, 1987; Humphery & Moores, 1994*), an autonomous instrument platform designed to measure near-bed fluid motions and suspended sediment concentrations with high temporal resolution. Deployed as part of the Holderness Experiment (*c.f. Prandle, 1994*) in the NERC LOIS RACS(C) Programme during October, 1994 and during January-February, 1995 STABLE has been utilised to obtain measurements of local sediment resuspension, transport and accretion processes. The work presented in this report is part of the data dissemination resulting from the Holderness experiment and examines in detail, data resulting from the first STABLE deployment in October, 1994. A follow-up POL report will examine data from the second STABLE deployment at Holderness.

1.1 Background

The Holderness coast, composed principally of glacial till, is rapidly retreating (*circa 2 m/year*) and represents the largest single source of sediments to the North Sea (*Prandle, 1994*). The morphology and associated sediment dynamics of the Holderness coastline are discussed by *Pethik & Leggett (1993)* who ascribe the bulk of sand size sediment transport to wave action. Waves with a return period in the range 8-15 months are thought to mobilise the majority of offshore sediments and contribute to the bulk of the observed net southerly drift of sediments along the coast. Waves with more frequent return periods and generally lower energy are not considered to contribute significantly to net sediment transport. Given that sediments originating from this source may play a major role in determining water quality in large areas of the North Sea, the Holderness experiment aimed to provide a comprehensive data set to improve understanding of physical processes and to enable the development, parameterisation and validation of dynamically and sedimentological numerical models.

The Holderness experiment was conducted during October 1994 to March, 1995, and brought together a wide range of observational expertise and hardware in an integrated and comprehensive field measurement campaign (*Figure 1b*). Waves were measured at inshore and offshore sites using wave buoys, bottom pressure recorders and X-Band radar in order to provide a framework for describing wave climate and the frequency of extreme events likely to have a significant impact upon sediment dynamics. The measurements also provided a large synoptic data set with which to study wave transformations in shallow water. Other instrumentation utilised during the experiment included POL acoustic Doppler current profilers (ADCP), acoustic backscatter devices (ABS), pressure recorders and InterOcean S4DW current meters deployed together as POL Mooring Packages (PMP's). In addition, the HF radar system OSCAR, deployed to measure surface currents over a wide area, and ERS-1 SAR images provide remotely sensed data to aid understanding of physical processes at the Holderness field site. Analysis of wave data undertaken since the end of the field experiment is described by *Wolf (1996)*.

1.2 STABLE: Sediment Transport And Boundary Layer Equipment

The STABLE rig (*Figure 1a*) measured turbulence, surface waves and the concentration of suspended particulate matter in *burst* data acquisition mode at 8 Hz at heights (z) above the sea bed for 20 minutes every hour of rig deployment using electromagnetic current meters (ECM) at $z = 30.5$ cm and 60.3 cm, a sensitive pressure sensor at $z = 172.5$ cm and optical backscatter (OBS) instruments at $z = 30.5$ cm and 60.3 cm, respectively. In addition, the vertical concentration profile of suspended particulate matter (SPM) has been measured at 4 Hz in *burst* mode using a triple frequency acoustic backscatter system (ABS) at $z = 126.5$ cm. These data were logged independently and were synchronised precisely with *burst* ECM and pressure sensor data. Measurements of average current flow speed at four heights above the sea bed ($z = 39.0$ cm, 57.0 cm, 75.0 cm and 93.0 cm), average current direction ($z = 107.5$ cm), water depth ($z = 174.5$ cm) and rig orientation were recorded in *mean* mode at intervals of one minute. In addition, STABLE

acted as a platform to support sediment traps at $z = 184.5$ cm and 95.0 cm. Data from these instruments are not considered in the present report. A detailed description of the STABLE rig and data acquisition and storage and of the ABS system is given by *Humphery & Moores (1994)* and *Thorne et al., (1993)*.

1.3 Field site and STABLE deployment

STABLE was deployed from the *RV Corystes* on 14 October 1994 in approximately 25 m of water at a location off the Holderness coast ($53^{\circ} 49.448'N$, $00^{\circ} 06.936'E$, *Figure 1b*). In addition, the MAFF rigs *Tetrapod* and four *Minipods* were also deployed during the *Corystes* cruise in the vicinity of the STABLE site. Where possible data from these rigs will be integrated with data from the STABLE deployments in future studies.

Underwater television surveys showed the bottom sediments in the vicinity of the deployment site principally to be composed of gravel with fine sand between the interstices of the coarse grains. Relatively small areas of ephemeral sand sheets and ribbons with well developed ripples were also noted at sites inshore of STABLE. Such sediment assemblages are considered to be indicative of strong tidal current action at the sea bed which results in the development of a lag gravel bed armour deposit over sandy sediments. On the basis of evidence from other similar sites, such armour is likely only to be mobilise during extreme storm events. The resulting release of sandy sediments is likely to be large in such conditions.

Although the weather remained relatively calm during the experimental period, the STABLE rig mooring suffered some damage attributable to shipping activities and the electromagnetic current meters were found to be flooded on recovery owing to crevice corrosion. Despite these problems, STABLE acquired sufficient data to enable detailed investigations of local interactions between tidal currents, waves and sediments over a period of approximately 12.5 days. During the deployment, the offshore wave buoy at site

N4 (*Figure 1b*) recorded waves with a significant wave height (H_s) and period (T_z) exceeding 3.0 m and 11 s, respectively, around 19 October, 1994. However, H_s values in the range 1.0 - 1.5 m were more typical of the wave conditions during the majority of the deployment considered here.

2.0 Scope of report

This report describes preliminary analysis of STABLE and ABS data. Where possible, an assessment has been made of data quality and all spurious data values have been omitted. Fortunately, this has only been necessary in a small number of cases. In a few instances, missing or poor quality data values have been replaced with values derived using appropriate interpolation routines. Hydrodynamic parameters have been calculated to describe the average conditions pertaining at the STABLE deployment site during a given *burst* measurement period. These data have been fully calibrated and are presented in standard metric units. Whilst data relating to average suspended sediment concentrations are uncalibrated at the time of writing this report, they are related linearly to actual concentrations and thus temporal variations in observed SPM values can be related directly to observed temporal variations in local hydrodynamic conditions.

Methodologies utilised to analyse STABLE data have been developed at POL (*Williams et al., 1996*) and follow methods described by *Soulsby et al. (1991)* and *Hannay et al. (1994)*. These methods have been validated using a 1DV random wave boundary layer model (*O'Connor et al., 1994*) for data obtained at a site off the Belgian coast in February, 1993 (*Williams et al., 1996*). *Section 4.0* outlines the approaches used to derive terms relating to the local, *burst* average hydrodynamic conditions and suspended sediment concentrations. Parameters derived from the STABLE data are then considered under the following categories: Tides; waves; turbulence; bed shear velocity; drag coefficient and apparent bed roughness; wave-current-bed interactions; and sediment dynamics. Use has been made of the software packages *Minitab 10.0* for statistical analysis and data plotting

and *Microsoft Excel* for data base management. The disk accompanying this report contains the STABLE data base used to produce all figures in this report in *Microsoft Excel* format.

3.0 Disclaimer and data ownership

All data and information contained in the data base accompanying this report have been compiled by the originating scientists. Whilst great care has been taken to ensure data validity, no promise, warranty or undertaking has been made or has been given by POL, for the use or interpretation of the data or by any accompanying information, software or materials. The recipient must rely on his/her own skill and judgement in further utilisation of this data base. All data remain the property of POL and users must acknowledge appropriate POL staff in any subsequent publications arising from use of the data contained in this report and accompanying data base.

4.0 Burst data analysis

The raw STABLE data set contained 499 *burst* data records of variable quality. The first 60 *bursts* were obtained prior to deployment of the STABLE rig and consequently were omitted from the analysis. ECM sensor malfunction towards the end of the deployment identified during preliminary analysis resulted in the rejection of additional *burst* data records. Abrupt termination of ECM data has been attributed to the corrosion problems noted above. Subsequent analyses have concentrated upon *bursts* 61 to 360 (approximately 12.5 days). During each *burst* data measurement period, 11 *burst* data channels (C) were logged at 8 Hz (9234 record per file) by the STABLE *burst* data logger. These included: uAp (C1); wAp (C2); uAs (C3); wAs (C4); uBp (C5); wBp (C6); uBs (C7); wBs (C8); OBS-1 (C9); OBS-2 (C10); and P (C11). Here: u and w refer to horizontal and vertical flow, respectively; A and B refer to ECM sensors at height above the sea bed (z) of 30.5 cm and 60.3 cm, respectively; p and s refer to port and starboard sensors, respectively; OBS-1 and OBS-2 refer to optical backscatter sensors at z = 30.5 cm and 60.3 cm, respectively; and P refers to the *burst* measurement of absolute pressure at z = 172.5 cm. ABS data from 4.0

MHz, 2.0 MHz and 700 KHz devices were recorded using an independent ABS data logger mounted on the STABLE rig with each ABS *burst* data acquisition period being synchronised precisely with a STABLE *burst*. Profiles of SPM obtained using the ABS system extended to $z = 126.5$ cm with a vertical resolution of 2 cm.

4.1 *Burst* ECM data

All *burst* ECM data channels were screened to check for and to remove spurious data values. Before proceeding with data analysis, *burst* average and standard deviation values for each data channel were calculated and plotted as time series to aid identification of sensor and/or logger malfunction. These data are shown in *Figure 2* and *Figure 3* where, for convenience, *burst* 0 on the x axis is equivalent to *burst* 61 of the STABLE deployment. This convention is used in all subsequent time series plots of *burst* average STABLE data. Horizontal and vertical ECM data channels (*Figure 2*) show clearly modulation at the tidal frequency and exhibit zero drift through time and varying degrees of zero offset error. The wAp channel (*Figure 2b*) was found to exhibit the greatest degree of sensor zero drift during *bursts* 61-360. Data analysis routines designed to ameliorate these errors are described below. Standard deviation values for all ECM data channels (*Figure 3*) also show tidal modulation and are shown to attain maximum values around *bursts* 100-150. It will be shown below that this results from the observed increase in surface wave height.

Regression techniques and a 9 point tidal filter were used successfully to remove sensor zero drift from the ECM time series (not found to exceed 10 cm/s in any case). Zero offset errors were removed by centring all ECM time series around zero using statistical methods. It was also necessary to correct for misalignment of the ECM sensors relative to the principal tidal flow streamline. The gradient of the regression line derived from plots of the *burst* average vertical flow component versus the *burst* average horizontal flow component (port and starboard, sensors A and B) was used to determine sensor misalignment angles relative to the principal streamline (θ). Sensor misalignment

corrections are applied to the zero-mean, detrended ECM time series using the formulations given in *Table 1*.

Flow component	ECM rotation correction
wAp	$wAp(\cos(\theta_1)) - uAp(\sin(\theta_1))$
uAp	$wAp(\sin(\theta_1)) + uAp(\cos(\theta_1))$
wAs	$wAs(\cos(\theta_2)) - uAs(\sin(\theta_2))$
uAs	$wAs(\sin(\theta_2)) + uAs(\cos(\theta_2))$
wBp	$wBp(\cos(\theta_3)) - uBp(\sin(\theta_3))$
uBp	$wBp(\sin(\theta_3)) + uBp(\cos(\theta_3))$
wBs	$wBs(\cos(\theta_4)) - uBs(\sin(\theta_4))$
uBs	$wBs(\sin(\theta_4)) + uBs(\cos(\theta_4))$

Table 1 Rotation of ECM channels

Values for θ_1 , θ_2 , θ_3 and θ_4 were found to be -0.91° , 0.80° , 3.75° and 0.86° , respectively, indicating strongly that STABLE rested upon a level surface during the deployment. The relatively large value for θ_2 is attributable primarily to inaccuracy in the manufacture of the ECM mounting spar and was noted by *Williams et al., (1996)*. Data from adjacent ECM heads were combined to obtain estimates of the flow components U, V and W within the measurement volume of the ECM pairs at $z = 30.5$ cm and 60.3 cm. The zero-mean flow components u' , v' and w' describing both turbulent and wave induced fluid motions were then calculated.

In order to obtain estimates of wave induced near-bed currents and near-bed turbulence intensity from ECM data it is necessary to isolate wave motions from the turbulent tidal flow components. This has been achieved through use of a spectral splitting technique described by *Soulsby & Humphery (1989)* to obtain separately the variance due to waves ($\overline{u_w'^2}$ and $\overline{v_w'^2}$) and turbulence ($\overline{u_t'^2}$ and $\overline{v_t'^2}$). The frequency bounds of the characteristic wave peak in u' and v' spectra for a given *burst* record were defined using the

bottom pressure spectrum. The method is used to obtain separate wave and turbulent variance for each horizontal flow component from which *burst* average RMS wave orbital velocity (σ_w) and *burst* average wave direction ($\overline{\Psi}_w$) are obtained using

$$\sigma_w = (\overline{u_w'^2} + \overline{v_w'^2}) \quad (1)$$

$$\overline{\Psi}_w = \tan^{-1} (\overline{v_w'^2} / \overline{u_w'^2}) \quad (2)$$

Variance due to turbulence (i.e. $\overline{u_t'^2}$, $\overline{v_t'^2}$ and $\overline{w_t'^2}$) in the time series u' , v' and w' were utilised subsequently to obtain estimates of bed shear velocity (see *Section 7.4*).

Williams et al., (1996) found it advantageous to determine the optimum temporal position in the vertical flow time series in subsequent eddy correlation analyses. Cross-correlation analysis was first used to determine the lag between port and starboard w time series at a given height and thereby allow temporal ‘centring’ of the w series within the ECM measurement volume. Since a strong correlation is found to exist between the lag and the average current speed it is possible to automate this correction in subsequent analyses using a regression technique. Lags up to 2 seconds were observed at low flow velocities.

4.2 *Burst* pressure data

The *burst* pressure channel P was found to be corrupted by noise spikes (exceeding > 2 standard deviations for a given time series) and by a data logging problem that caused the *burst* pressure records to suddenly jump between two DC offset levels when the values in the pressure time series exceeded a certain value. Both these problems were corrected automatically using software. Selected *burst* pressure records were corrected for depth attenuation using linear theory. Good agreement was found between observed significant wave height (H_s) and significant wave period (T_z) values derived from STABLE data and

values from wave buoys in the vicinity of the STABLE deployment site (*Figure 1b*). In the present work, *burst* pressure data have been used to define the band width of gravity wave frequencies for use in a spectral method to obtain estimates of wave orbital speeds near the sea bed (see *Section 4.1*).

4.3 *Burst* OBS data

Burst average output from the two OBS sensors initially was examined visually. Whilst OBS-1 values ($z = 30.5$ cm) were found to change sporadically by more than 2 standard deviations, OBS-2 values ($z = 60.3$ cm) were subject to much less inter-*burst* variability and correlated visually with observed hydrodynamic changes. It was necessary to edit the OBS-1 time series to remove all spurious data values utilising linear interpolation between adjacent good data points. There is thus a degree of uncertainty associated with this time series and its use in future studies must therefore be treated with caution. Whilst present OBS data express the relative concentration of suspended sediment, calibration of the sensors is required in order to determine actual concentration values.

4.4 *Burst* ABS data

Following removal of spurious data spikes and application of a calibration routine, burst average values were calculated for ABS data obtained from devices operating at 4.0 MHz, 2.0 MHz and 700 KHz for each of the 64 measurement cells. The calibration routine converted ABS voltages to decibels using an appropriate polynomial expression for a given ABS sensor. These data were subsequently converted into values which relate directly to sediment concentration. The STABLE data base accompanying this report contains selected ABS data from measurement cells 9, 19, 29, 39, 49 and 59 for each ABS measurement frequency. At the time of writing this report, work to give an absolute calibration for the instruments is currently underway.

5.0 Mean data analysis

Laboratory determine calibrations were applied to rotor, vane, pitch, roll, compass and pressure data and the resulting time series plotted for visual inspection. In all cases data were found to be free from noise spikes and spanned the entire period of the *burst* data. However, the rig pitch and roll sensors malfunctioned and no useful data was obtained. In general, the measured tidal current speed was observed to increase with height above the sea bed and current direction indicated by the vane conferred in phase with data from adjacent moorings. However, closer inspection of the rotor data showed current speed estimates to be highly variable with few observed velocity profiles correlating with $\log(z)$ (i.e. R^2 values less than 0.60). Based upon experience of these data from other STABLE deployments it is speculated that rotors malfunctioned during the present deployment, probable due to fouling. Further consideration of these data is given below.

6.0 Data base description

To facilitate easier access to the information contained in this report, a data base containing all hydrodynamic parameters and sediment concentration information derived from the present STABLE data set is include on the floppy disk which accompanies this report. Both *burst* average and *mean* data sets are included. Attention is drawn to *Section 2.0* of this report regarding data integrity and intellectual property rights.

The data base is held in the *Microsoft Excel* file **STABLE.xls**, *Appendix 2*. *Burst* average hydrodynamic parameters and sediment concentration values in this data base are defined in *Appendix 1* which lists the column numbers, column headers and includes a description and definition of the various terms derived from the raw *burst* ECM, pressure, OBS and ABS data channels and mean data channels described above.

7.0 Data description

This section describes selected *burst average* STABLE data which illustrate clearly the hydrodynamic conditions pertaining at the present field site during the experimental period 15 - 27 October 1994. All data plots have been produced utilising the data in **STABLE.xls** using the graphics facilities in the *Minitab V10.0* package. In most cases, owing to close similarity between data sets obtained at $z = 30.5$ cm and $z = 60.3$ cm, only data from one specified measurement height is presented in order to maintain data presentation clarity.

7.1 Tides

Tidal variations in water depth approximately in the range 21 m to 26 m are illustrated in *Figure 4*. These data show part of a neap-spring-neap tidal cycle with little additional surge component consistent with the relatively calm weather during most of the experiment. Variations in tidal current speed at $z = 30.5$ cm approximately in the range 5 - 55 cm/s are shown in *Figure 5*. Also shown is the tidally average current speed demonstrating modulation consistent with a neap-spring-neap cycle. The plot of *burst average* U and V flow components in *Figure 6* show the tidal ellipse to be relatively narrow and indicative of approximately rectilinear tidal motion. Tidal current and Reynolds stress directions are illustrated in *Figure 7*. As expected there is a strong visual correlation between these two time series indicating that bed shear stress is aligned approximately with the tidal currents. Surface wave activity has no detectable influence upon *burst average* Reynolds stress direction values. Bedload sediment transport would be expected therefore, to follow closely the average tidal current direction during the present measurement period.

Burst average rotor data are shown in *Figure 8*. Offsets are applied artificially to these data to permit inter-comparison between the different measurement heights. The scatter plot in *Figure 9* shows the relationships between tidal current speed measured by the rotors and by the ECM sensors at $z = 60.3$ cm. In general, the agreement is good.

7.2 Waves

Time series of *Burst* average RMS wave orbital speed (σ_w) measured at $z = 30.5$ cm is shown in *Figure 10*. Owing to the relatively low wave activity (maximum $H_s \approx 3.0$ m during 19 October, 1994), maximum σ_w speeds do not exceed 10 cm/s and in most cases are less than 5 cm/s. σ_w values obtained theoretically from surface wave elevation data using linear theory agree well with σ_w values obtained from STABLE data. *Figure 10* show also the modulation in σ_w resulting from changes in water depth during the tidal cycle. Close similarity between σ_w values at $z = 30.5$ cm and $z = 60.3$ cm is shown in *Figure 11*. Slightly higher speeds measured at $z = 60.3$ cm is consistent with other STABLE data (*c.f. Williams et al., 1995*) and is attributable to wave-current interaction. Such close similarity between σ_w values at each measurement height indicates strongly that the spectral splitting method used to obtain these data gives results consistent with theory.

7.3 Turbulence

Following removal of variance attributable to surface waves using the spectral splitting method described above, RMS turbulence intensity values were calculated for the zero-mean turbulent flow components u' , v' and w' at $z = 30.5$ cm and 60.3 cm. Here RMS values are defined as $(\overline{u'^2})^{0.5}$, $(\overline{v'^2})^{0.5}$ and $(\overline{w'^2})^{0.5}$ where the subscript t denotes turbulent fluctuations in the absence of waves. RMS normalised turbulence intensity values for u' , v' and w' time series are illustrated as time series in *Figure 12*. Average values for the whole deployment are shown in *Table 2*.

z	Normalised RMS turbulence intensity		
	$(\overline{u'})^{0.5}/U_*$	$(\overline{v'})^{0.5}/U_*$	$(\overline{w'})^{0.5}/U_*$
60.3 cm	3.16	3.32	1.02
30.5 cm	3.16	4.05	1.06

Table 2 Normalised RMS turbulence intensity values

Data in *Table 2* is consistent with measurements obtained in other geophysical boundary layers widely reported elsewhere (*c.f. Soulsby, 1983*). *Figure 12* shows that irrespective of the flow component considered the scatter of data values increases as the tidal current speed decreases. Further data analysis outside the scope of the present study is required to explain these observations and will be the subject of future publications.

Power spectra (E) over a frequency range $f = 0.0025 - 4.0$ Hz were obtained from u' , v' and w' time series obtained at $z = 30.5$ cm and 60.3 cm using a fast Fourier transform (FFT). An approximately $f^{-5/3}$ power law behaviour consistent with theory was observed for frequencies greater than 1.0 Hz for all *bursts*, and an approximately f^{-5} power law decay was evident for wave frequencies in the range $0.1 - 0.3$ Hz during *bursts* when waves were present. This result indicates that turbulence generated at the sea bed by wave action, with frequencies greater than approximately 0.5 Hz, cannot be detected by the present ECM sensors at $z \geq 30.5$ cm. All spectra derived from the flow components u' , v' and w' at $z = 60.5$ cm (i.e. *bursts* 61 to 360) are illustrated as 2D contour plots in *Figure 14(a)*, *Figure 14(b)* and *Figure 14(c)*, respectively. These *figures* show clearly modulation of spectral energy due to tidal forcing across all frequencies. In addition, *Figure 14(a)* and *14(b)* show evolution and decline of a characteristic peak in spectral energy at approximately 0.125 Hz attributable to surface waves (period ≈ 8 seconds) during the storm. The principal characteristics of turbulence spectra for u' , v' and w' components at $z = 30.5$ cm were found to be essentially the same as those obtained at $z = 60.3$ cm.

Figure 14(c) shows little evidence of wave activity during the experiment. However, there is perhaps a small peak in energy at approximately the wave frequency during *bursts* 150 to 300, indicating a leakage of wave orbital motion into the vertical channel. It is considered that this occurs due to momentary misalignment of the ECM sensor relative to the principal streamline, (*c.f. Williams et al., 1996*). Such sensor misalignment may have

implications when utilising Reynolds stress estimates to determine bed shear stress and is given consideration by *Williams et al., (1996)*.

Co-spectra for u' and v' components (not illustrated) showed significant scatter in spectral estimates across all frequencies. In terms of the spectral wavelength λ_s at height z above the sea bed (*Soulsby, 1983*), where $\lambda_s = \hat{S}_z / f$, approximately 80% of the covariance is associated with λ_s values in the range $1.0 < \lambda_s < 350$ m for *bursts* 61-360. This range of λ_s values is observed to decrease progressively in response to increasing wave height.

Whilst the time-average of u' , v' and w' is zero, the time average of their squares and mixed products are not and thus a net force or *Reynolds stress* arises in all turbulent flows. Owing to the conservation of momentum, a parcel of low momentum fluid moving away from a boundary to a region of higher velocity flow in a typical turbulent boundary layer would accelerate the fluid were it not for friction (i.e. $-pu'w'$, or *shear stress*). Since the fluctuating velocities in any two orthogonal planes are inversely correlated, a positive u' is associated with a negative w' (and *vice versa*), and thus the shear stress resulting from turbulent motions is positive. Similar arguments hold for all possible combinations of u' , v' and w' . The total time averaged stress at any point in a shear flow is described by the Reynolds stress tensor (∇) where

$$\nabla = -\rho \begin{bmatrix} U^2 & UW & VW \\ & V^2 & UV \\ & & W^2 \end{bmatrix} + -\rho \begin{bmatrix} u'^2 & u'w' & v'w' \\ & v'^2 & u'v' \\ & & w'^2 \end{bmatrix} \quad (3)$$

Terms in the left and right hand matrix include all turbulent and wave motions and represent the *burst* average and fluctuating stress terms, respectively. In the present report, the *burst* average Reynolds stress terms u'^2 , v'^2 , w'^2 , $\overline{u'w'}$, $\overline{v'w'}$ and $\overline{u'v'}$ have been calculated to facilitate investigation of the interactions between surface waves and tidal

currents. Instantaneous stress terms, involving the cross-product of the *burst* average stress and fluctuating stress terms are not considered here.

Temporal variation in the Reynolds stresses $\overline{u'w'}$, $\overline{v'w'}$ and $\overline{u'v'}$ measured at $z = 30.5$ cm is shown in *Figure 13*. Owing to the orientation of STABLE relative to the principal flow direction $\overline{v'w'}$ values are larger than $\overline{u'w'}$. Statistical description of all *burst* average Reynolds stress time series at $z = 30.5$ cm and 60.3 cm is given in *Table 3* and *Table 4*. Good agreement between ECM measurement heights is clearly evident.

Variable	N	Mean	Median	St.Dev.	Min.	Max.	Q1	Q3
$\overline{u'w'}$	300	-0.09	0.25	2.06	-9.86	4.17	-1.06	1.17
$\overline{v'w'}$	300	0.34	0.11	2.64	-4.84	8.10	-1.39	1.76
$\overline{u'v'}$	300	12.80	3.11	26.91	-20.29	175.50	-3.79	19.94

Table 3 Reynolds stress descriptive Statistics, $z = 30.5$ cm

Variable	N	Mean	Median	St.Dev.	Min.	Max.	Q1	Q3
$\overline{u'w'}$	300	-0.11	0.08	2.64	-10.86	7.14	-1.14	1.44
$\overline{v'w'}$	300	0.74	0.21	3.03	-5.44	9.76	-1.37	2.68
$\overline{u'v'}$	300	12.23	2.99	25.12	-21.84	164.17	-2.83	18.91

Table 4 Reynolds stress descriptive Statistics, $z = 60.3$ cm

Large values of the lateral Reynolds stress $\overline{u'v'}$ indicative of strong current shear in the near-bed region shown in *Figure 13* spanning *bursts* 100 - 180. *Figure 15*, showing the relationship between $\overline{u'v'}$ and RMS wave orbital speed, suggests that large $\overline{u'v'}$ values may be attributable in part to wave-current interactions ($R^2 = 0.54$). Similar large lateral

Reynolds stress values are reported by *Williams et al. (1996)* during storm conditions at a site close to a large offshore sand bank.

7.4 Bed shear velocity

Estimation of average bed shear velocity (\bar{U}_*) is widely recognised as being subject to errors which arise from a number of sources. In the present study four methods have been used to estimate *burst* average bed shear velocity (\bar{U}_*) using STABLE data: Logarithmic profile (LP); Reynolds stresses (RS); turbulent kinetic energy (TKE) and; the inertial dissipation methods (ID). Assumption of a logarithmic distribution of average velocity with height is found to be valid in studies of wave plus current condition reported by *Kemp & Simons (1983)*. In the LP method reported here, estimates of \bar{U}_* are obtained using a least squares regression fit to selected ECM (LP_{ECM}) and rotor (LP_R) data, (*Soulsby et al., 1991 and; Bergeron & Abrahams, 1992*). *Burst* ECM and rotor data obtained during periods of rapid flow acceleration/deceleration or when $\hat{S}_{40} < 20$ cm/s were rejected. In such circumstances, turbulence level and stress is likely to be enhanced and constant stress layer assumptions are invalidated. All velocity profiles were averaged over a period corresponding precisely with a given *burst*. As noted above, few velocity profiles measured by the rotors conformed to a logarithmic velocity distribution with height above the sea bed resulting in a paucity of \bar{U}_* estimates derived from this method.

Assuming a constant stress layer up to $0.1d$ (i.e. ≈ 2 m), shear velocity has also been estimated using *burst* ECM data at $z = 30.5$ cm and $z = 60.3$ cm using the Reynolds stress (RS, *Equation 4*) and turbulent kinetic energy (TKE, *Equation 5*) methods.

$$\bar{U}_{*RS}^2 = (\tau/\rho) = \{(\overline{-u'_t w'_t})^2 + (\overline{-v'_t w'_t})^2\}^{1/2} \quad (4)$$

$$\bar{U}_{*TKE}^2 = (\tau/\rho) = 0.19 (E_T) \quad (5)$$

where $\overline{-u'_t w'_t}$ and $\overline{-v'_t w'_t}$ are *burst* average Reynolds stress values excluding waves, $E_T = 0.5(\overline{u'^2_t} + \overline{v'^2_t} + \overline{w'^2_t})$ and the constant of proportionality (0.19) is given by *Soulsby (1983)*.

As an additional check of \overline{U}_* estimates described above, use was made of the inertial dissipation (ID) method (*Xu et al., 1994*) to determine sea bed stress. Here

$$U_* = \left[\phi_{ii}(k) k^{*3} / \alpha_i \right]^{1/3} (kz)^{2/3} \quad (6)$$

where $\phi_{ii}(k)$ is the i^{th} turbulent velocity component of the wavenumber (k) spectrum, α_i is the appropriate Kolmogorov constant (0.54, *Williams & Paulson, 1977*) and k^* is von Kármán's constant (0.4). Estimates of \overline{U}_* at low Reynolds numbers ($Re < 3000$, where $Re = \overline{U}_* k z_{cr} / \nu$ and z_{cr} is the critical height above the bed and ν is kinematic viscosity) were adjusted using the method described by *Huntley (1988)*. As expected \overline{U}_* values obtained using the ID method were found to be very similar to the \overline{U}_* values from the TKE method and are consequently not presented here.

Results from these analyses are presented in *Figure 16* which shows tidal modulation of \overline{U}_* at $z = 30.5$ cm and the neap-spring-neap cycle identified above. In general, there is reasonable agreement between the RS and TKE estimates of \overline{U}_* . In contrast, estimates of \overline{U}_* obtained from ECM and rotor data using the LP method exhibit a large scatter with values of \overline{U}_* only approximately coincident with the RS and TKE estimates during certain phases of the tide. This is consistent with results obtained from other STABLE data sets (e.g. Norfolk sand banks; and CSTAB) and results from the combined effect of flow acceleration and possibly minor stratification effects which tend to invalidate assumptions regarding the vertical velocity structure in the boundary layer. Similar effects are noted below when considering apparent bed roughness and drag and will be the subject of future investigations by the authors. Close similarity between \overline{U}_* estimates obtained using the TKE method at $z = 30.5$ cm and $z = 60.3$ cm is shown in *Figure 17*. Slightly larger \overline{U}_*

values at $z = 30.5$ cm are attributable to: the proximity of the wave boundary layer; and ECM sensor turbulence resolution (*c.f. Williams et al., 1995*). \bar{U}^* data are found to conform approximately to the quadratic friction law.

7.5 Drag coefficient and apparent bed roughness

The drag coefficient (C_d) is related to stress magnitude (τ/ρ) estimates at $z = 30.5$ cm and 60.3 cm (TKE method) by $C_d = (\tau/\rho)/\hat{S}_z^2$ and apparent bed roughness (z_a) is related to drag coefficient values at height z (C_z) by $z_a = ze^{(-k/C_z^{0.5})}$. Burst average values of C_d and z_a are included in the data base. Estimated values of the drag coefficient (C_d) at $z = 30.5$ cm derived using RS and TKE estimates of \bar{U}^* are shown in *Figure 18*. In common with estimated \bar{U}^* values presented above, C_d values are apparently subject to modulation at the tidal frequency. *Table 5* gives a statistical description of the C_d (TKE) time series obtained at $z = 30.5$ cm and $z = 60.3$ cm.

Variable	z (cm)	N	Mean	Median	StDev	Min.	Max.	Q1	Q3
Cd (TKE)	30.5	294	0.0019	0.0011	0.024	0.00045	0.0216	0.0008	0.002
Cd (TKE)	60.3	294	0.0019	0.0011	0.020	0.00048	0.0153	0.0008	0.002

Table 5 Statistical description of C_d (TKE) *burst* average data values

Irrespective of the measurement height, the mean C_d value of 0.0019 is a little lower than values normally chosen to characterise bottom drag in existing numerical models (i.e. 0.0025). Apparent bed roughness implied by these results is relatively low and consistent with typical values for sea bed morphology at the present study site.

The relationship between C_d (TKE) and *burst* average tidal current speed shown in *Figure 19* demonstrates the scatter of data values and apparent enhancement of C_d values at current speeds less than approximately 20 cm/s. In common with findings presented above,

changes to the boundary layer resulting in distortion of the log-law region is identified as the principal source of data scatter. Without further investigation of this phenomenon it is not possible to use these data in related studies.

It is considered that the present time series of estimated drag coefficient values is of high quality and reflects genuine physical changes in local hydrodynamic conditions during the experimental period. As such, this data is very useful in assessing the validity of certain data analysis procedures and will be the subject of further work by the authors.

7.6 Wave-current-bed interactions

Figure 20, showing the relationship between RMS wave orbital speed/current speed (σ_w/S) and TKE/current speed² (TKE/S^2) indicates a progressive increase in the production of turbulent kinetic energy in response to an increase in the wave:current ratio. Since the value of TKE/S^2 should be approximately constant for a given bed roughness (*Soulby & Humphery, 1989*), *Figure 20* suggests that either the physical roughness of the sea bed changes during the experiment or that the additional turbulence generated at the sea bed through the action of wave motion can be detected by the ECM sensors. Similar interpretations are applicable also to data presented in *Figure 21* which shows the relationship between σ_w/S and C_d . However, as a note of caution it should be noted that in common with large TKE/S^2 in *Figure 20*, the large C_d values in *Figure 21* are generally occur close to slack water when tidal acceleration effects are likely to invalidate assumptions made regarding the vertical structure of the near-bed boundary layer. It is recommended that these results should be examined closely in future investigations.

7.7 Sediment dynamics

In addition to the preliminary investigation of hydrodynamic parameters derived from the STABLE *burst* data set, the present investigation also examined data from the optical backscatter sensors at $z = 30.5$ cm (OBS-1) and $z = 60.3$ cm (OBS-2) and from a triple

frequency acoustic backscatter device (ABS) operating at 4.0 MHz, 2.0 MHz and 700 KHz. At the time of writing this report, calibration of these instruments has not been completed so comments here are restricted to a description of observed relationships between uncalibrated SPM data and various hydrodynamic variables considered to be important in sediment entrainment, resuspension, transport and accretion processes.

7.7.1 OBS data

The temporal relationship between current speed, current direction and OBS data is shown in *Figure 22*. Maximum OBS data values are observed to be approximately coincident with the period of maximum tidal currents (*Figure 5*) and with the period of maximum RMS wave orbital speed (*Figure 10*). Modulation of the OBS data appeared to be slightly out phase with maximum current speeds and to some degree exhibited the ‘double peak’ characteristics associated with local resuspension and tidal advection maxima over the period of the semi-diurnal tide (*Weeks & Simpson, 1991*). Some evidence for a net ‘southerly’ drift of SPM is indicated by the OBS sensors which show SPM ‘concentration’ to be larger for mean tidal flow directions ($\Psi_c \approx 100^\circ$) than for $\Psi_c \approx 300^\circ$. Correlation between *burst* average current speed and OBS data was not found to be statistically significant ($R^2 = 0.02$). However, statistically significant correlation ($R^2 = 0.527$), observed between RMS wave orbital speed and OBS data (*Figures 23 and 24*), indicates strongly that weak wave activity during the present experimental period resulted in local resuspension of sediments. Residuals from the regression of OBS data on RMS wave orbital speed were not found to correlate with any hydrodynamic parameters derived in the present study. In common with observed SPM reported by *Williams et al., (1996)*, links between observed SPM and hydrodynamic conditions measured at a given locality remain unclear probably owing to the advection of fine particles through the study area that may or may not originate from the immediate area or from local hydrodynamic forcing.

7.7.2 ABS data

Time series from selected ABS measurements cell are shown in *Figure 25* (a)-(c) for the 700 KHz 2.0 MHz and 4.0 MHz devices, respectively. At the present stage of the investigation it is not possible to ascribe an absolute concentration of SPM to any of these measurements. Irrespective of the device measurement frequency, *Figure 25* shows that SPM concentrations are modulated strongly by variation in tidal current speed and decline with distance above the sea bed. Further, maximum observed SPM concentrations are coincident with the period of maximum RMS wave orbital speed (*Figure 10*). These results indicate strongly the important role of waves in local sediment resuspension dynamics. Selected typical *burst* average SPM concentration profiles are shown in *Figure 26*. Each curve exhibits the classic exponential form observed at many other locations in numerous studies of suspended sediment dynamics dominated by tidal flows. It is not possible to comment further upon data quality or to speculate upon the likely sediment dynamics at the present study site without there being further work on the ABS data. This will be undertaken at POL during 1996/97.

A comparison between relative SPM concentration time series recorded by the OBS and ABS devices is shown in *Figure 27*. The general trend in these data showing a maximum around burst 120 is similar in both cases and peaks in SPM concentration at approximately the tidal frequency are observed to be approximately coincident. Cross-correlation coefficients obtained from the OBS and ABS series are summarised in *Table 6*. These data show a statistically significant correlation between OBS and ABS time series.

ABS cell	R^2 (OBS-1)	R^2 (OBS-2)
6	0.772	0.716
8	0.773	0.715
10	0.768	0.713
12	0.762	0.711
14	0.756	0.709
16	0.755	0.711
18	0.752	0.713
20	0.757	0.719

Table 6 Cross-correlation coefficient (R^2) between ABS backscatter pressure (4.0 MHz) at measurement cells 6, 8, 10, 12, 14, 16, 18, and 20 and OBS signals at $z = 30.5$ cm and 60.3 cm.

8.0 Summary and acknowledgements

- ◆ The broad aims of the Holderness experiment are outlined briefly and the experimental site and instrumentation is described. High quality STABLE data have been obtained which describe local hydrodynamic conditions and suspended sediment dynamics.
- ◆ A brief description of the STABLE rig is given to familiarise the reader with sensors and data logging facilities.
- ◆ Selected data from the first STABLE deployment in the Holderness experiment during October, 1994 are presented and described. These data are considered to have value in a number of POL projects.
- ◆ *Burst* average STABLE data are examined under the following headings:
 - ◇ tides;
 - ◇ waves;
 - ◇ turbulence;
 - ◇ bed shear velocity;
 - ◇ drag coefficient and apparent bed roughness;
 - ◇ wave-current-bed interactions; and

◇ sediment dynamics.

- Selected data are presented as time series plots, scatter plots and power spectra. Initial comments are made regarding data quality and integrity. Data worthy of further investigation are identified and suggestions for further research are stated.
- Attention is drawn to links between observed hydrodynamic parameters and observed SPM. Use of these data in future studies and numerical modelling of local sediment mobilisation and transport is strongly advocated.
- A data base in *Microsoft Excel* format is included with this report on a 3.5" floppy diskette. All figures included in this report were prepared from these data.

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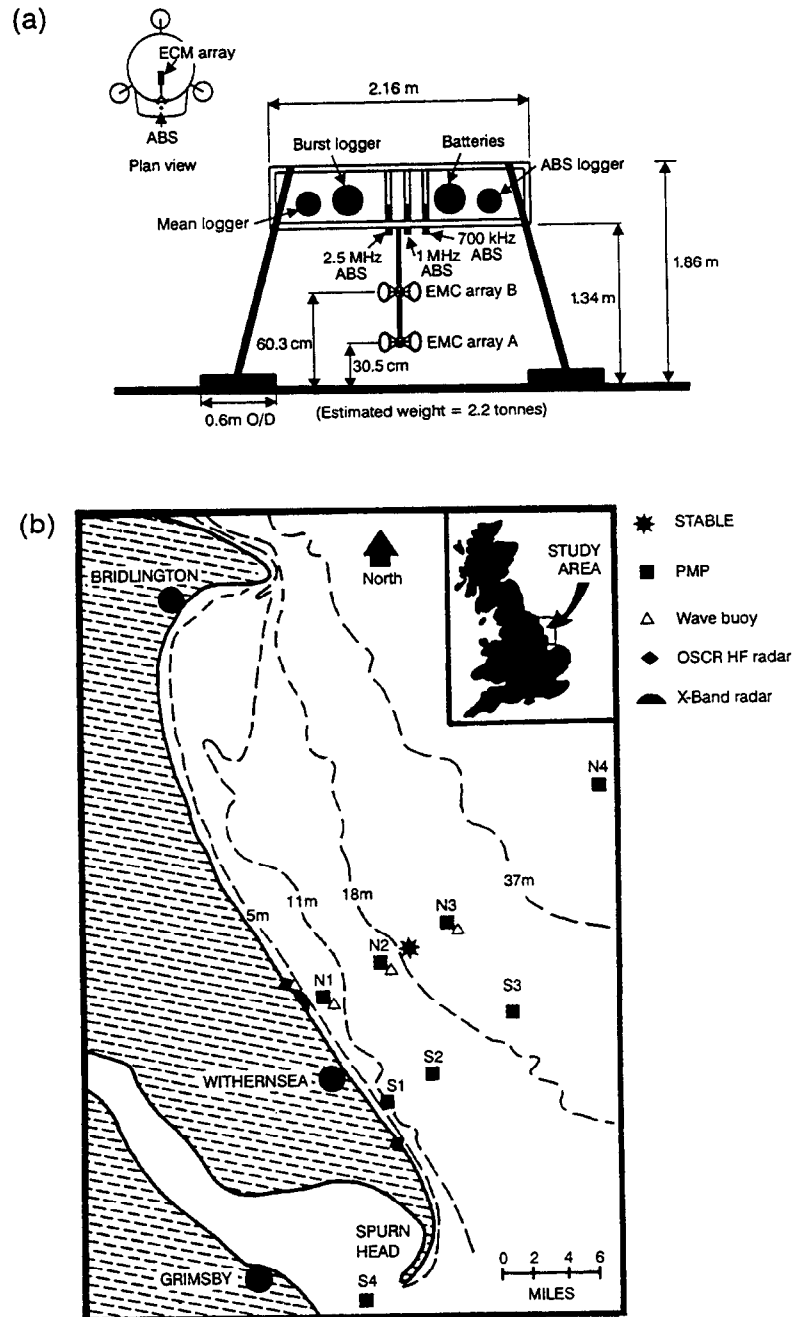


Figure 1 Location of the Holderness field site showing: (a) STABLE; and (b) the STABLE deployment site, Holderness, UK.

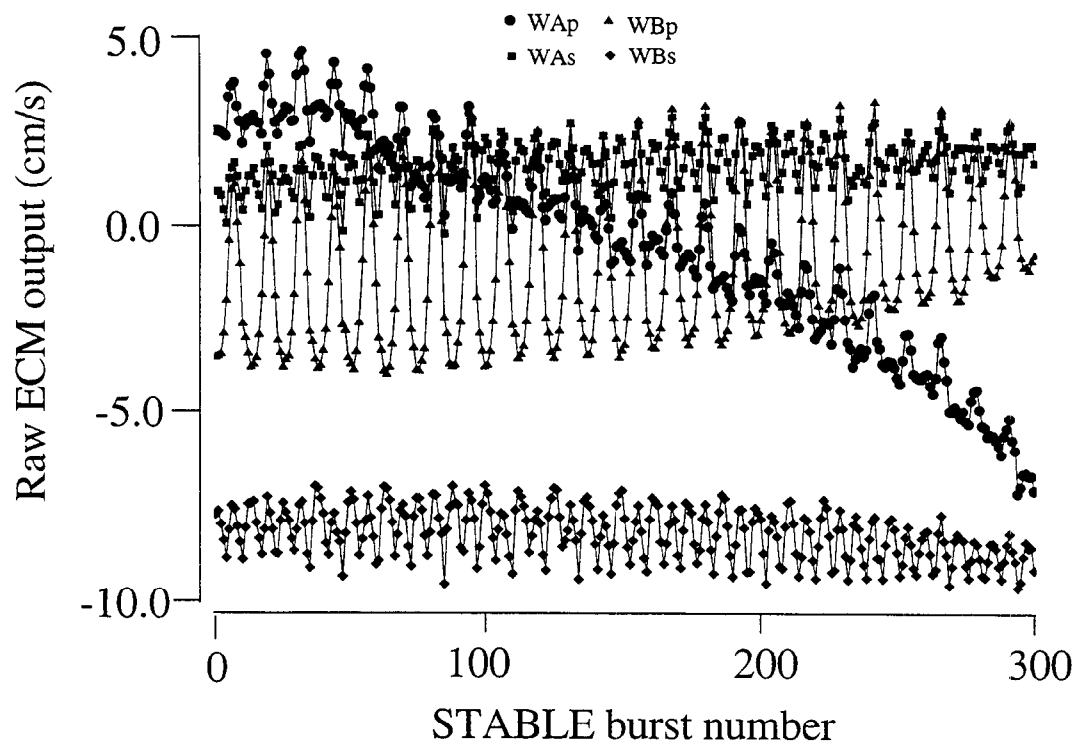
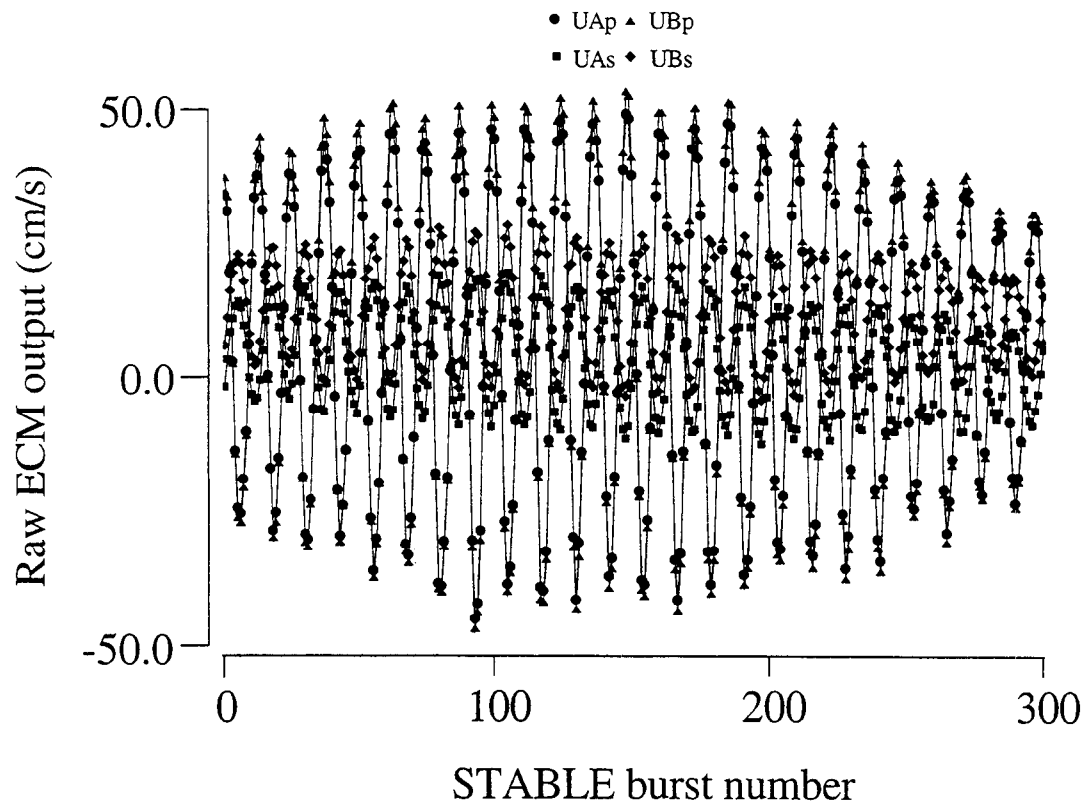


Figure 2 Raw *burst* average ECM data: (a) horizontal flow channels; and (b) vertical flow channels. All channels contain some element of sensor zero offset and sensor zero drift.

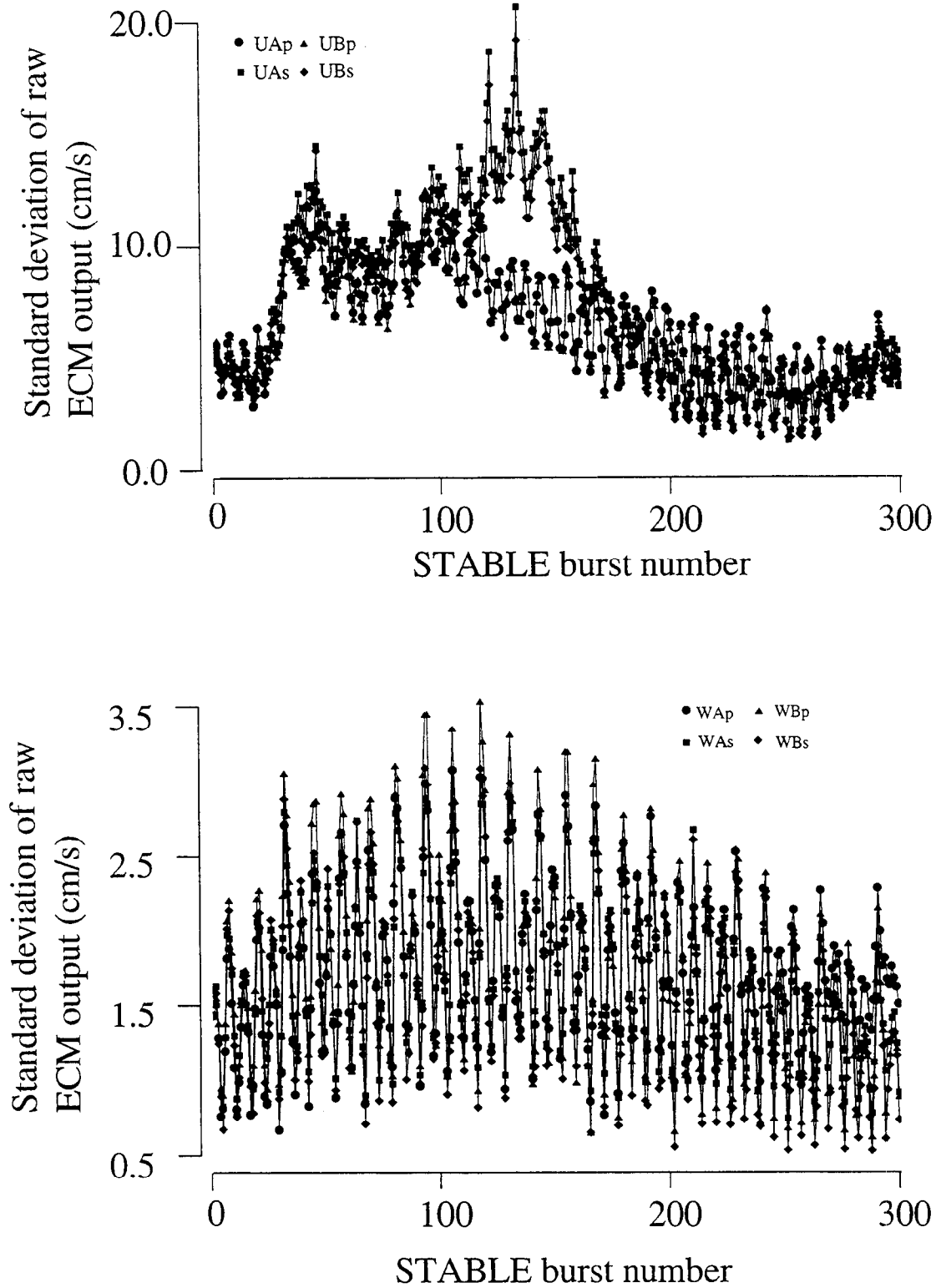


Figure 3 Standard deviation of raw *burst average* ECM data for: (a) horizontal flow channels; and (b) vertical flow channels.

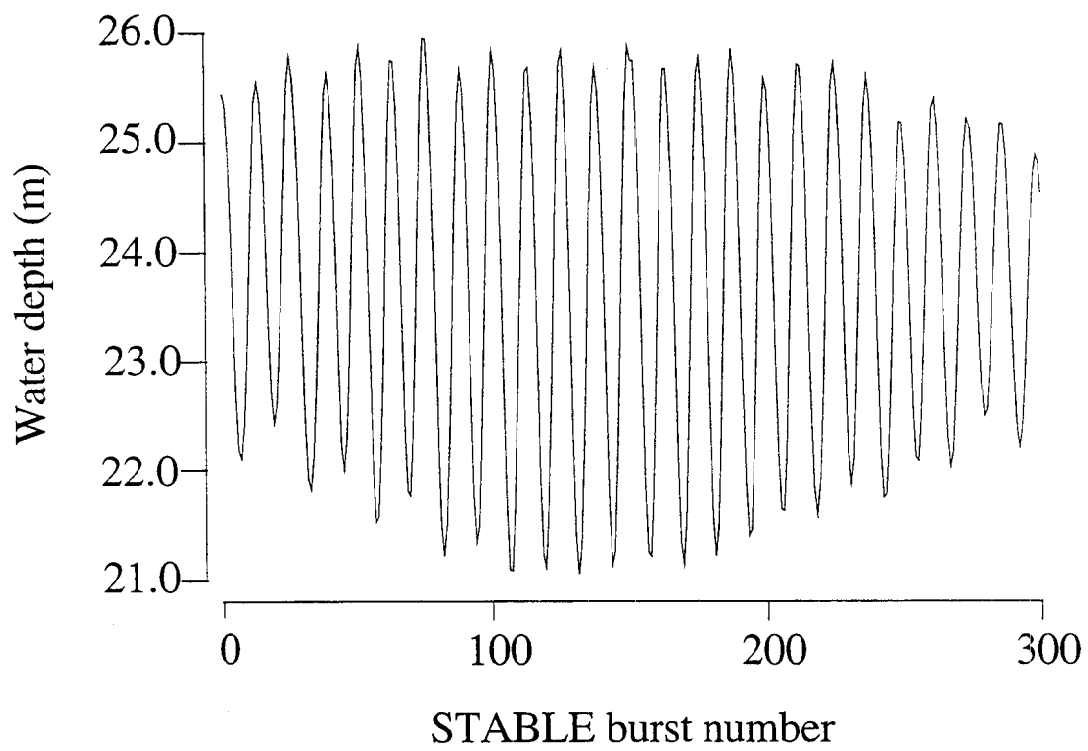


Figure 4 *Burst average water depth.*

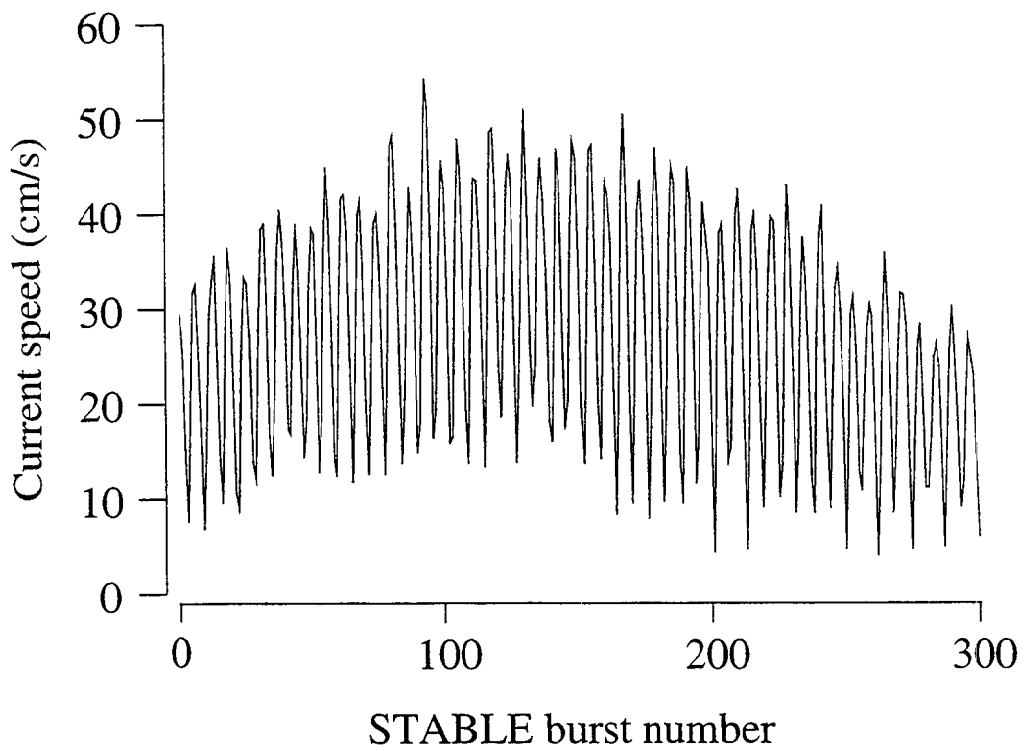


Figure 5 *Burst average tidal current speed at $z = 30.5$ cm.*

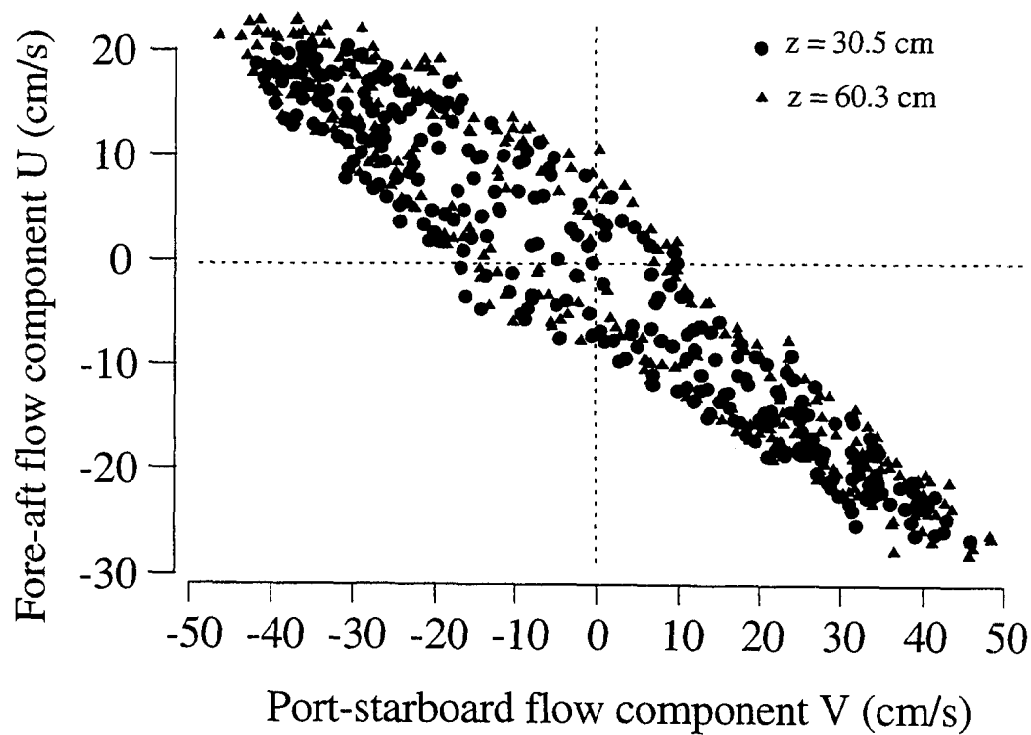


Figure 6 Scatter plot of *burst* average flow components U and V at $z = 30.5$ cm.

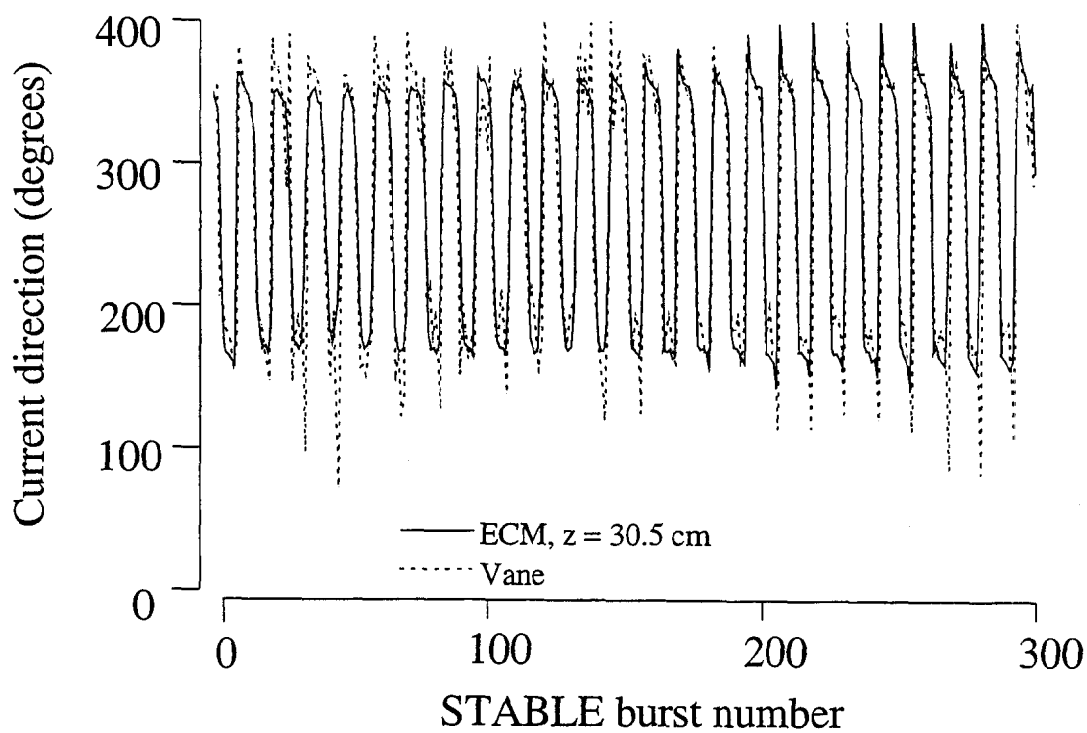


Figure 7 *Burst* average tidal current direction from ECM and vane data.

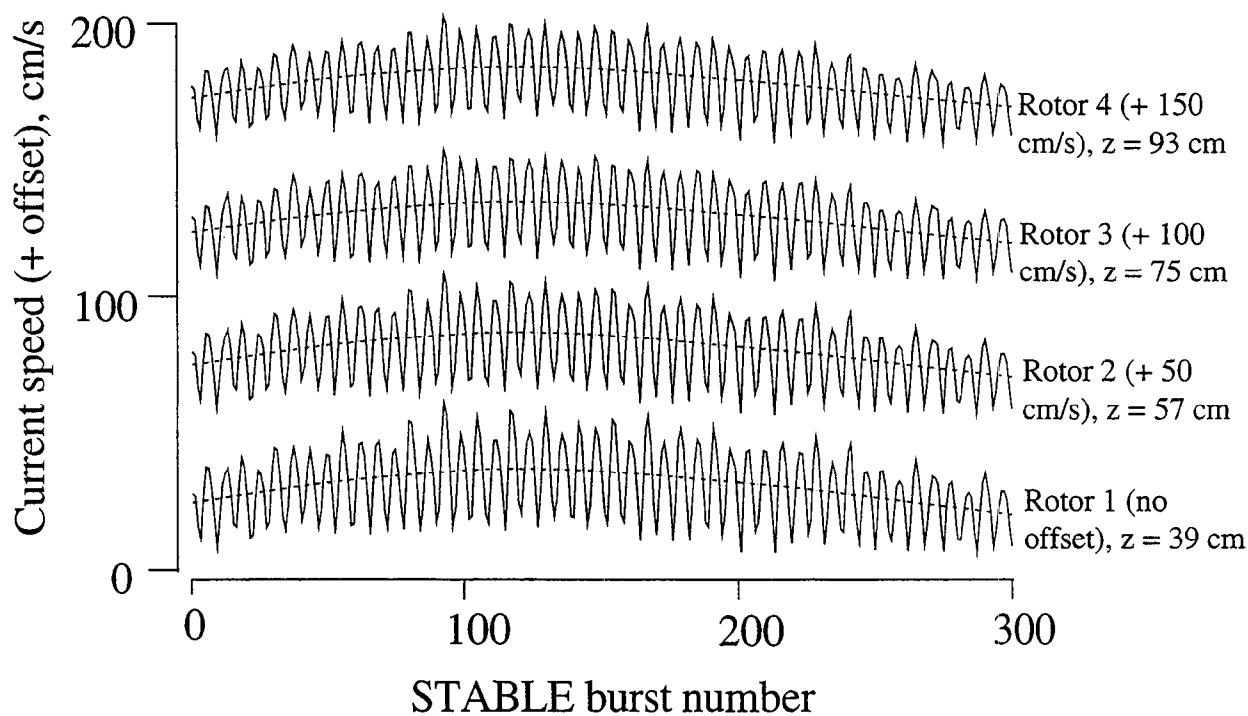


Figure 8 Burst average tidal current speed from rotor data.

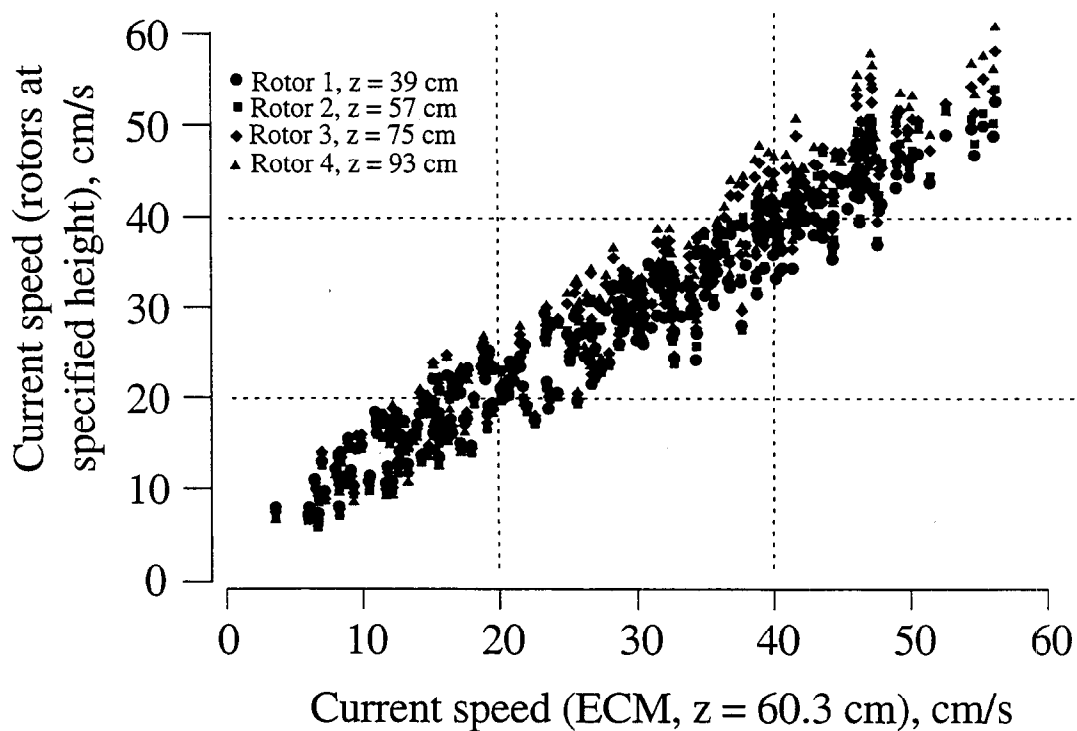


Figure 9 Scatter plot of *burst* average rotor data versus *burst* average ECM data at $z = 60.3$ cm.

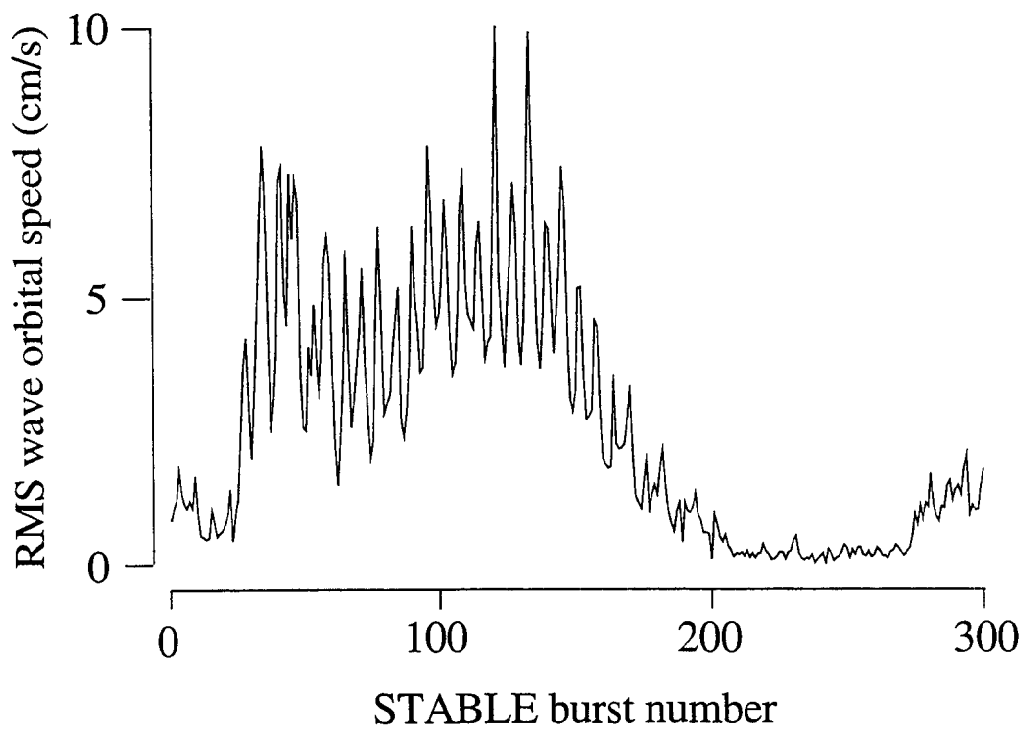


Figure 10 Burst average RMS wave orbital speed at $z = 30.5$ cm.

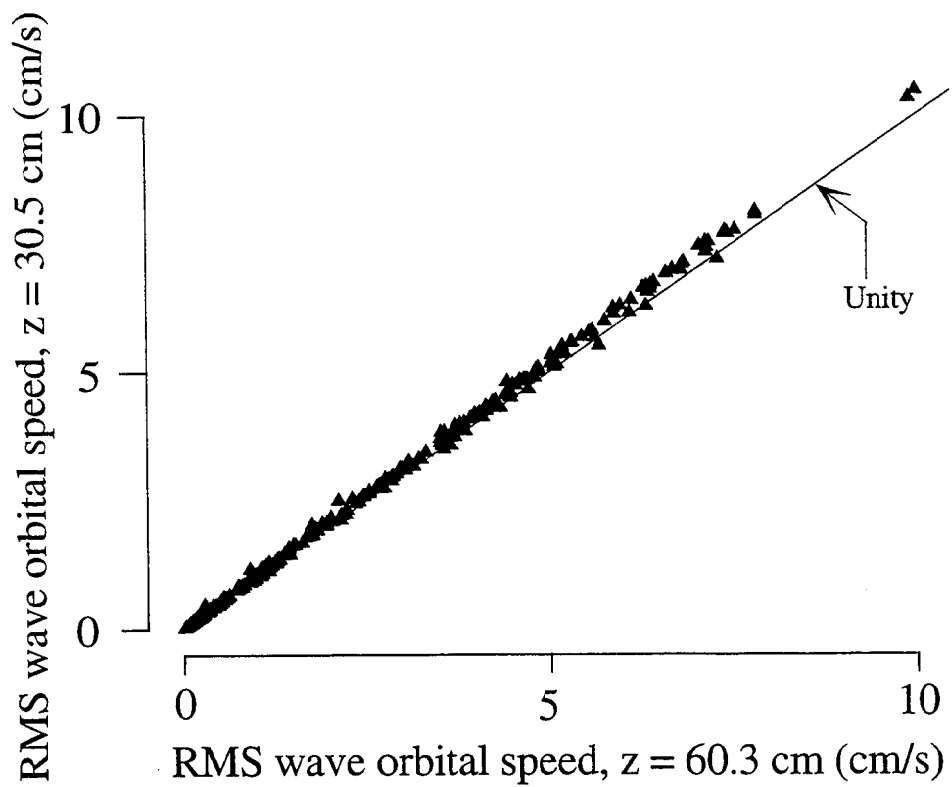


Figure 11 Scatter plot of RMS wave orbital speed at $z = 30.5$ cm and 60.3 cm.

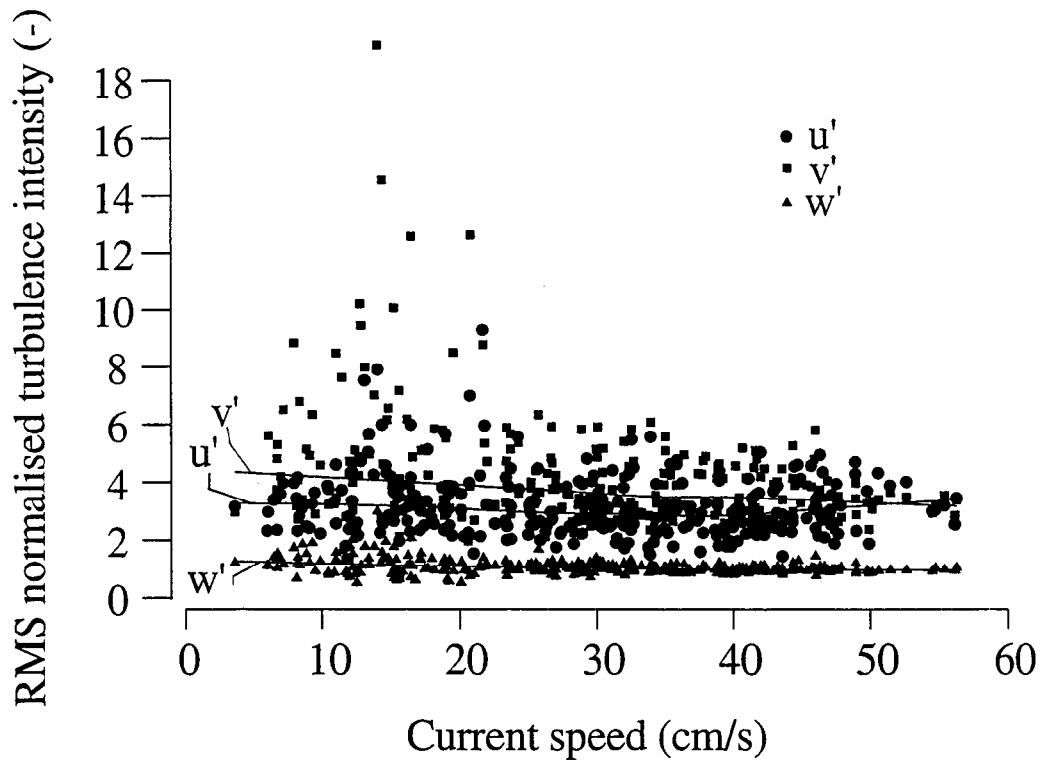


Figure 12 RMS normalised *burst* average turbulence intensity for flow components u' , v' and w' at $z = 30.5$ cm.

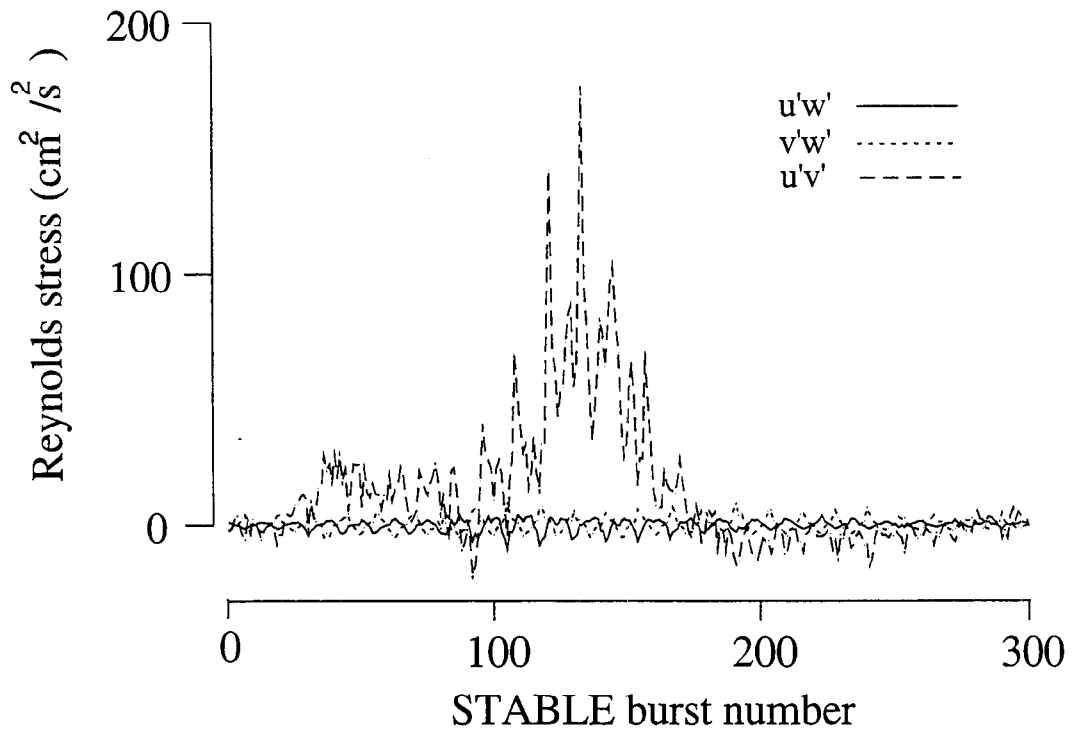


Figure 13 Time series plots of *burst* average Reynolds stresses $\overline{u'w'}$, $\overline{v'w'}$ and $\overline{u'v'}$.

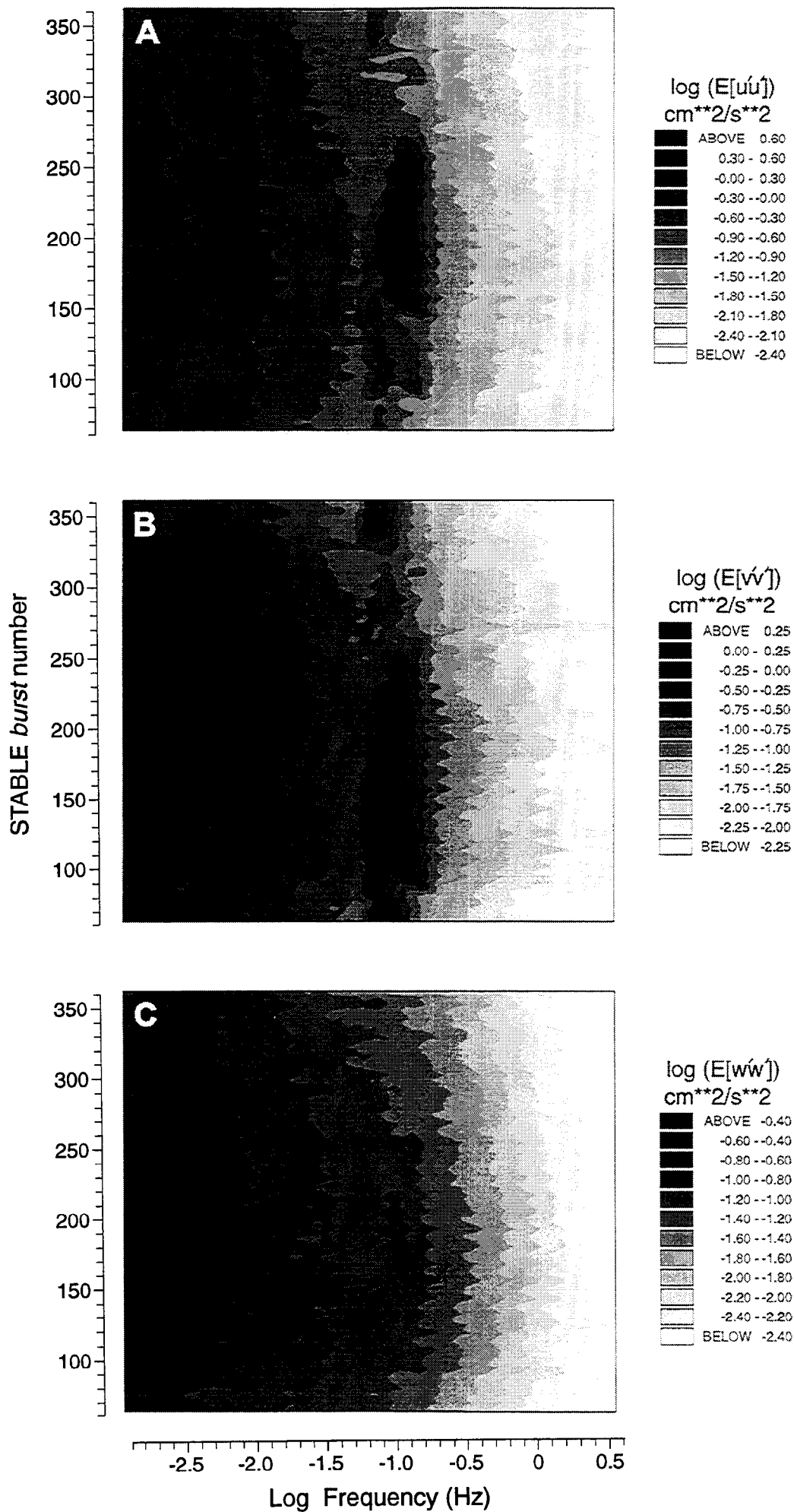


Figure 14 Contoured power spectra for the: (a) u' flow component; (b) v' flow component; and (c) w' flow component, STABLE bursts 61-360, $z = 60.3$ cm.

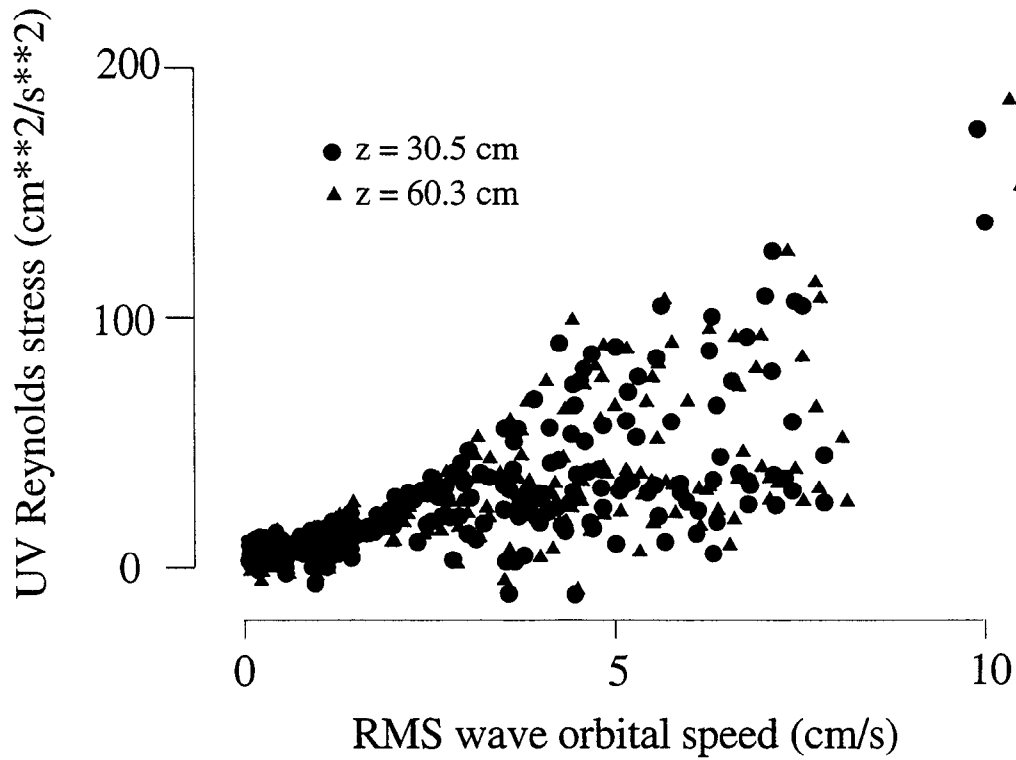


Figure 15 Scatter plot of *burst average* RMS wave orbital speed versus transverse Reynolds stress $\overline{u'v'}$.

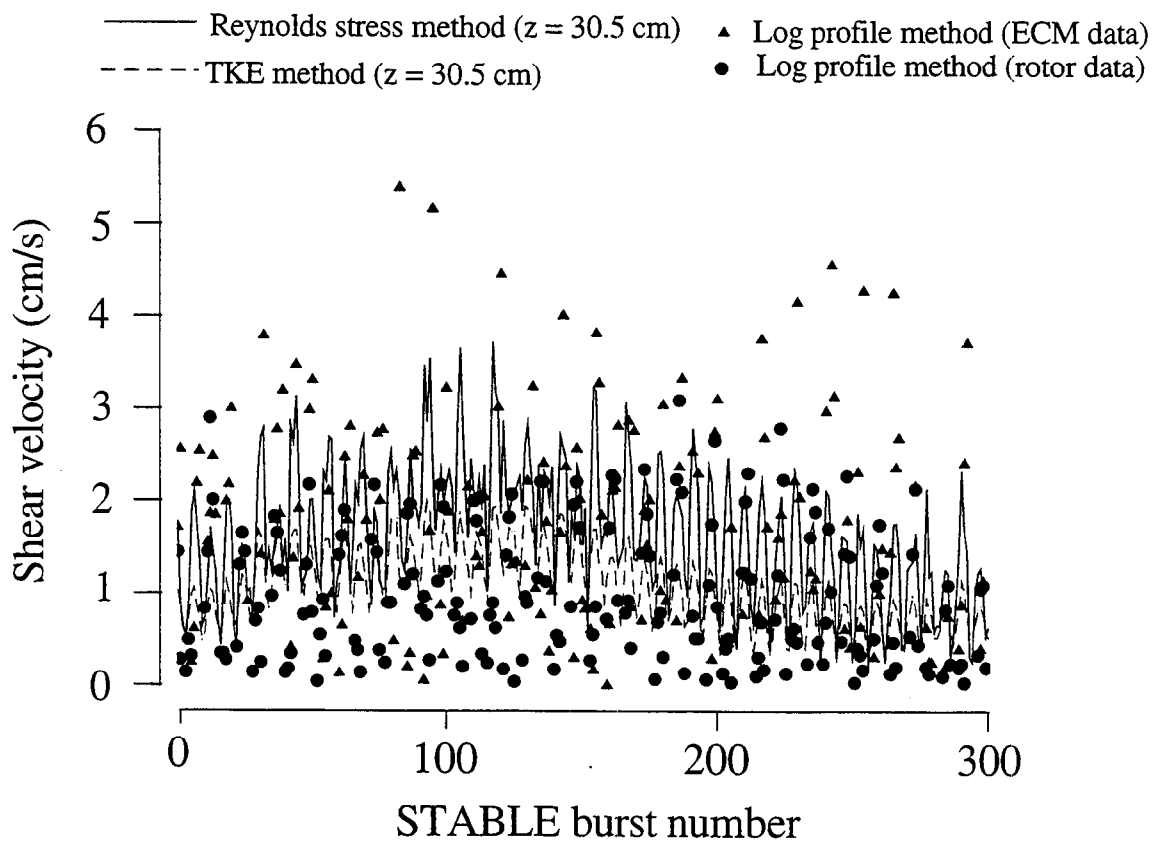


Figure 16 Estimated *burst average* shear velocity utilising the Reynolds stress (RS), turbulent kinetic energy (TKE) and log profile (LP) methods at $z = 30.5 \text{ cm}$.

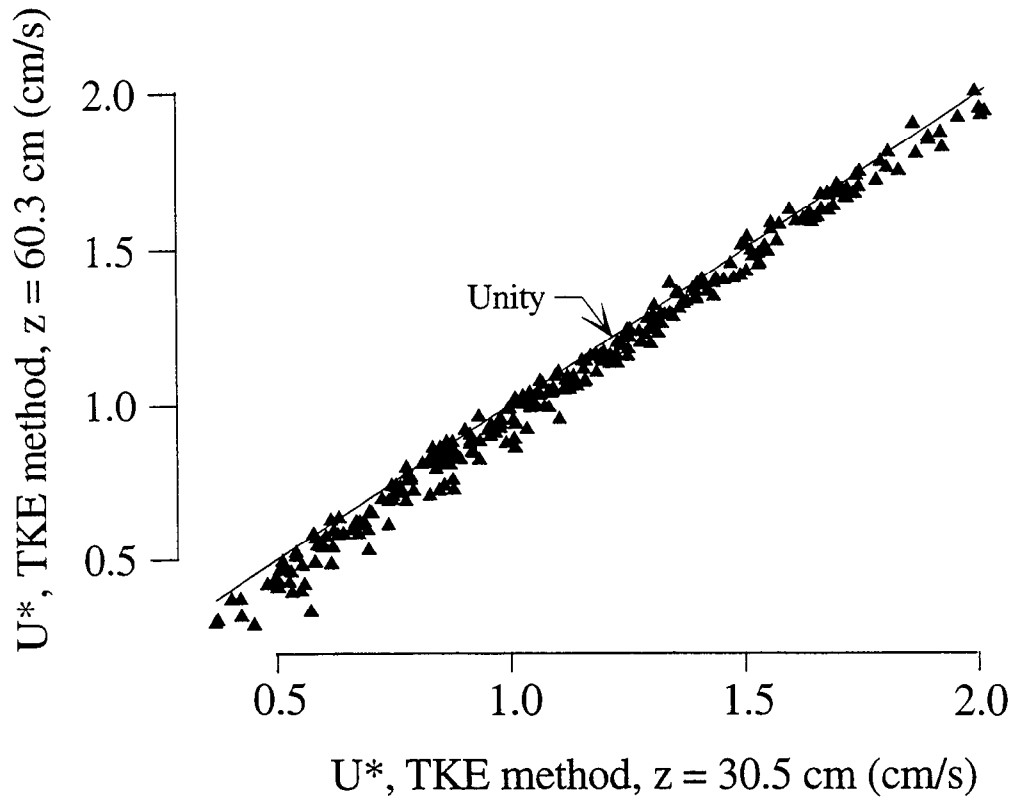


Figure 17 Scatter plot of *burst* average shear velocity (\bar{U}_*) estimates utilising the TKE method at $z = 30.5$ cm and 60.3 cm.

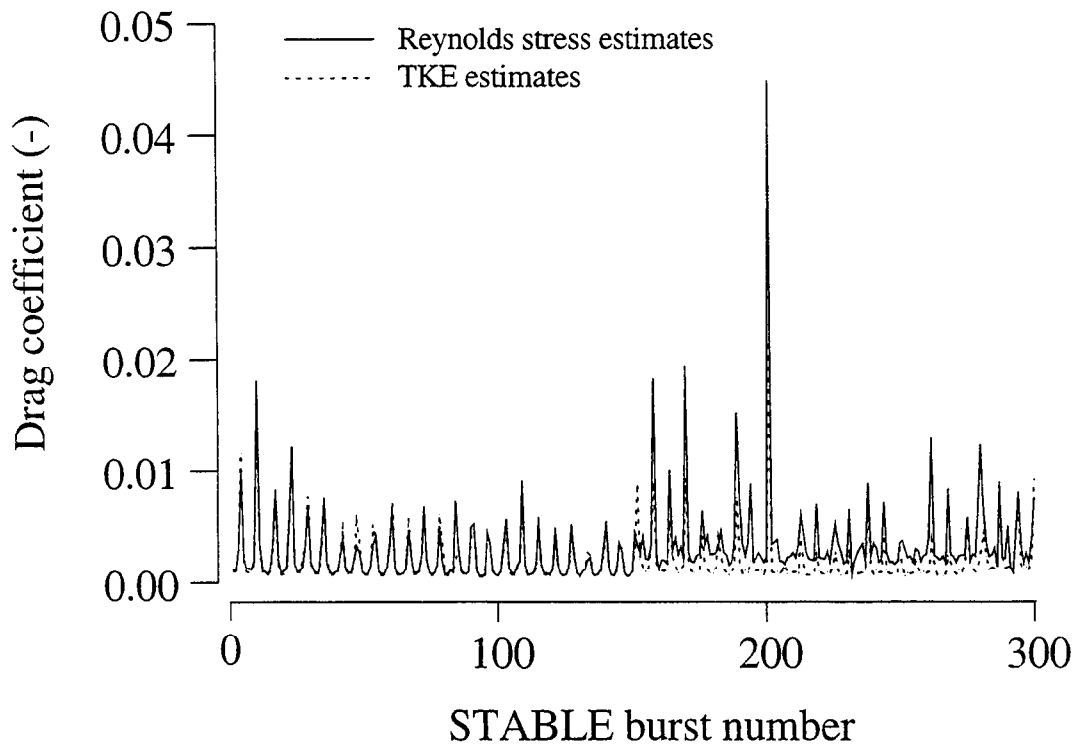


Figure 18 Time series plots of drag coefficient values obtained from \bar{U}_* estimates (RS and TKE methods) at $z = 30.5$ cm.

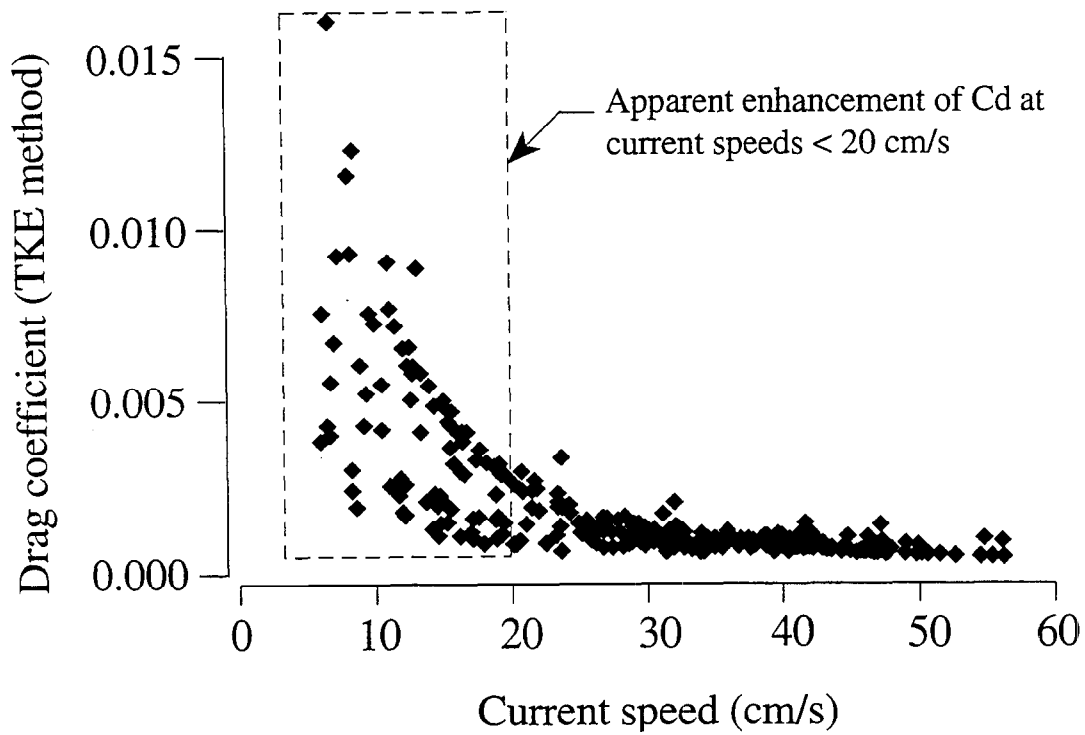


Figure 19 Scatter plot of *burst* average drag coefficient (derived from TKE estimates of \bar{U}^*) versus *burst* average current speed at $z = 30.5$ cm.

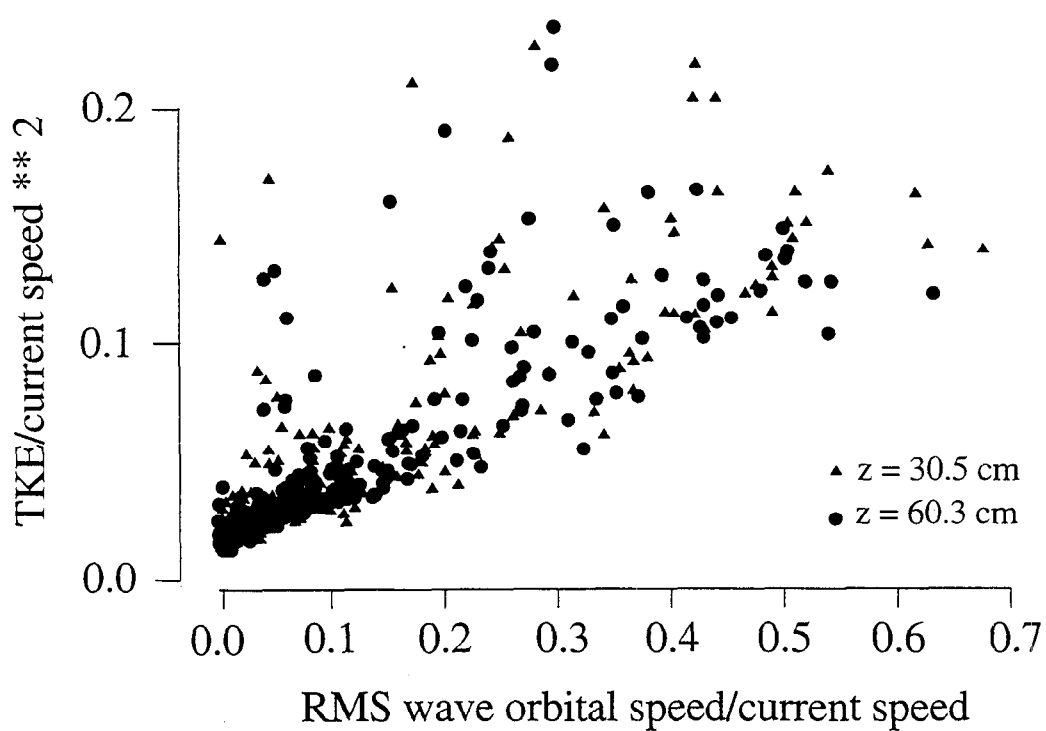


Figure 20 Scatter plot of *burst* average $(\text{TKE}/\text{current speed}^2)$ versus the wave:current ratio at $z = 30.5$ cm and 60.3 cm.

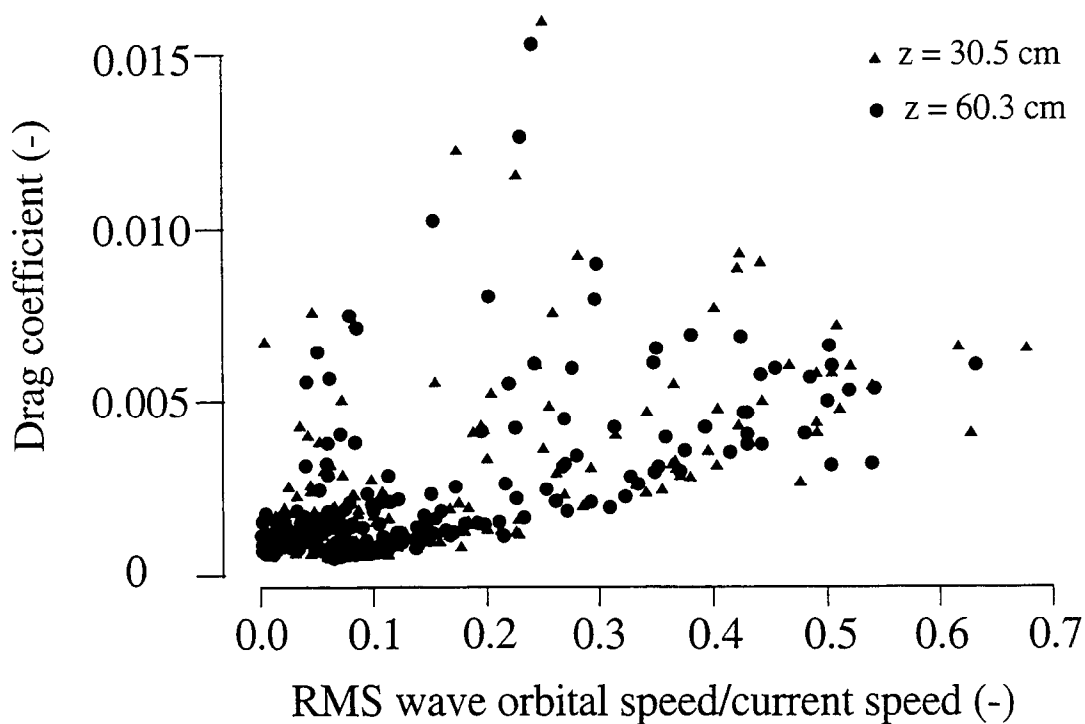


Figure 21 Scatter plot of *burst* average drag coefficient (derived from TKE estimates of \bar{U}_*) versus the wave:current ratio at $z = 30.5$ cm and 60.3 cm.

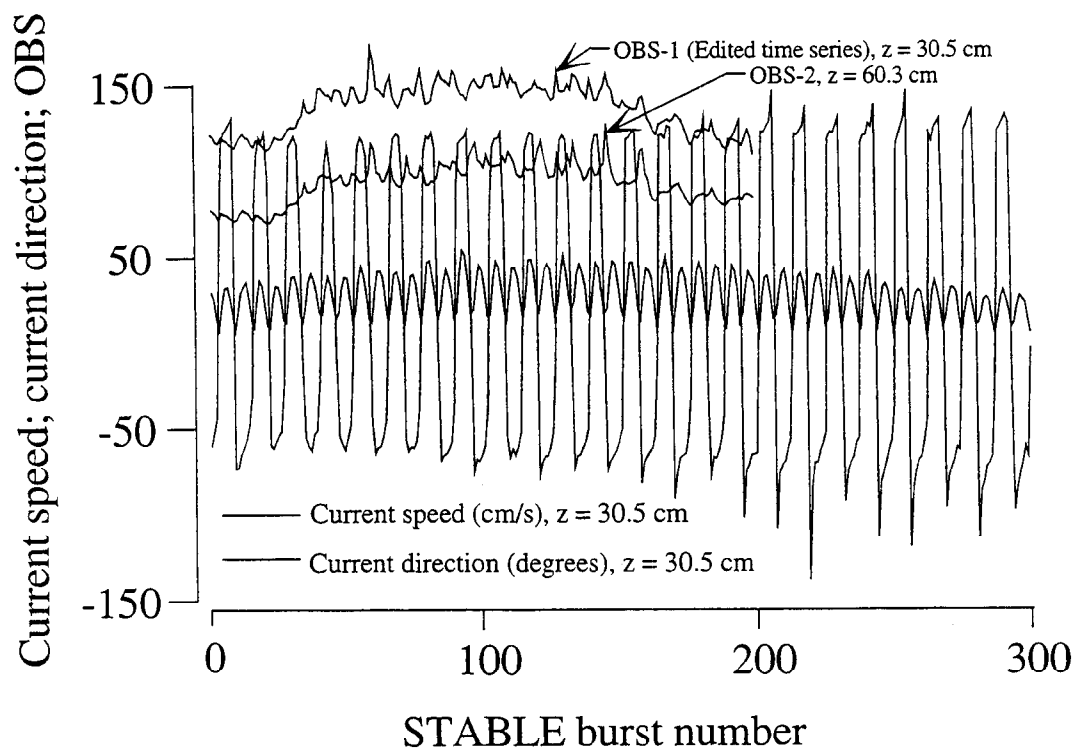


Figure 22 Time series plots of *burst* average tidal current speed and direction ($z = 30.5$ cm), and OBS time series at $z = 30.5$ cm and 60.3 cm.

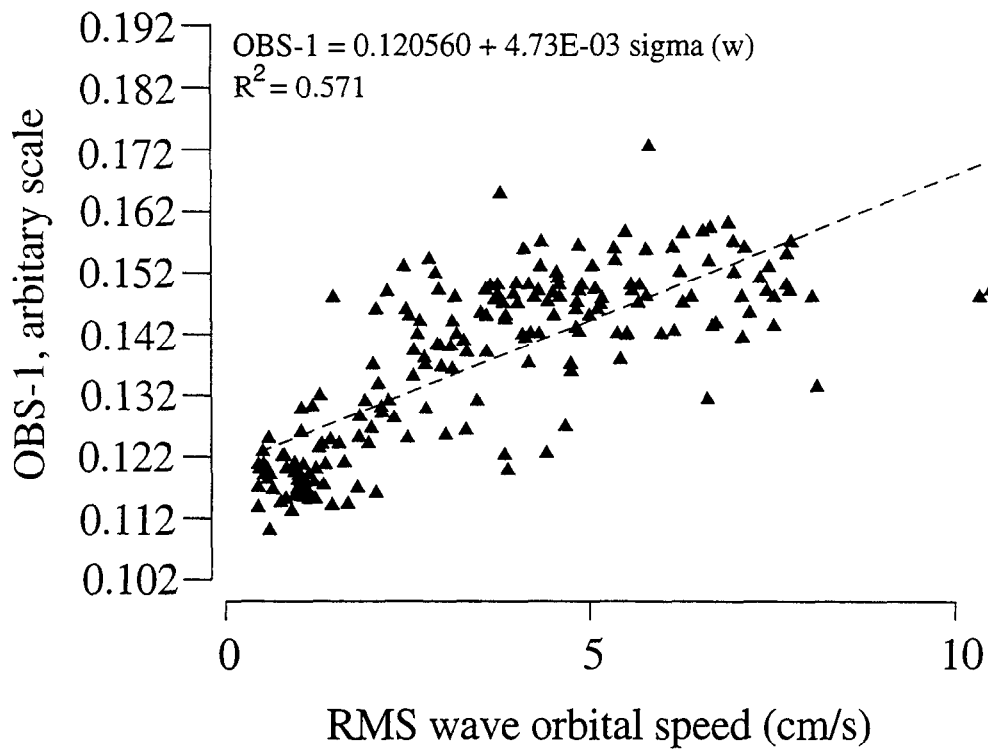


Figure 23 Scatter plot of *burst* average RMS wave orbital speed versus *burst* average OBS suspended sediment measurements at $z = 30.5$ cm.

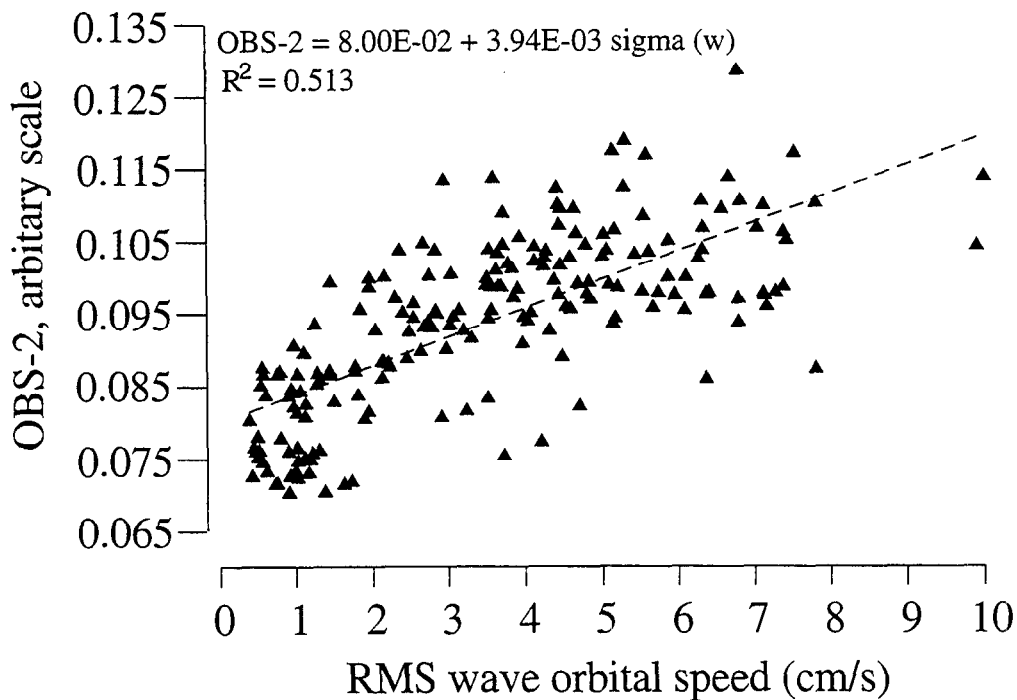


Figure 24 Scatter plot of *burst* average RMS wave orbital speed versus *burst* average OBS suspended sediment measurements at $z = 60.3$ cm.

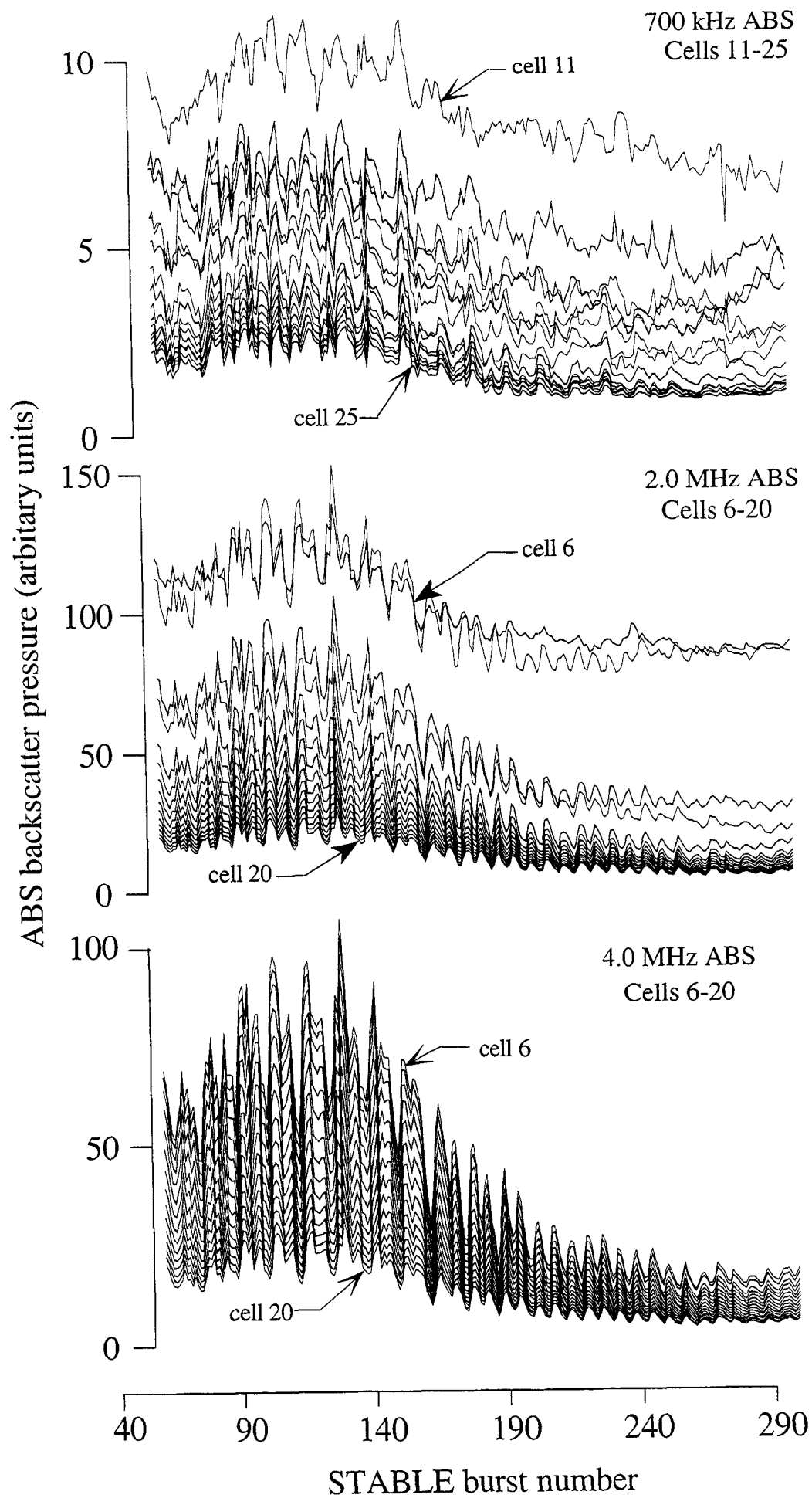


Figure 25 Burst average ABS observations of suspended sediments from the: (a) 700 KHz (cells 11-25); (b) 2.0 MHz (cells 6-20); and (c) 4.0 MHz (cells 6-20).

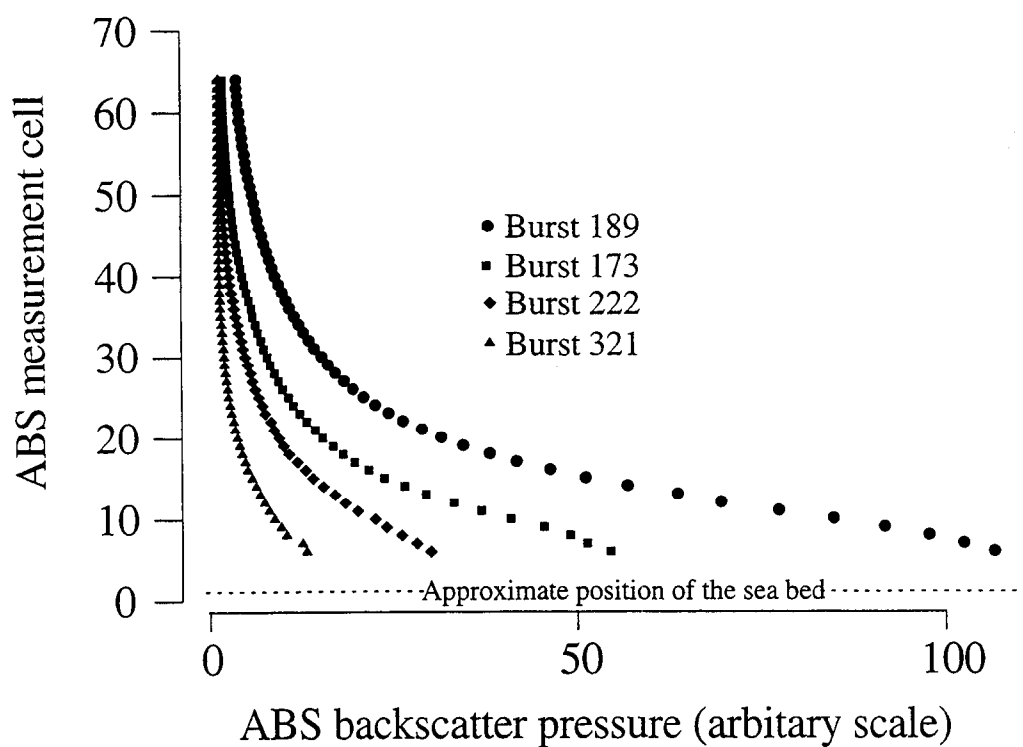


Figure 26 Burst average ABS suspended sediment concentration profiles, bursts 89,173, 222 and 321.

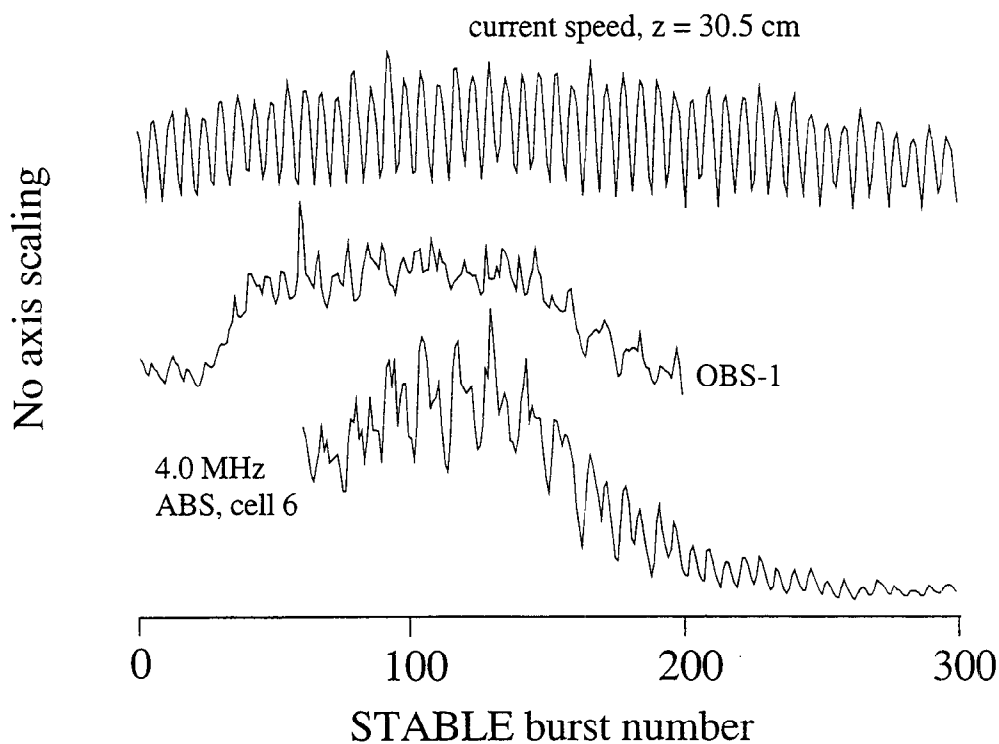


Figure 27 Time series plots of burst average current speed, OBS ($z = 30.5$ cm) and ABS 4.0 MHz, measurement cell 6).

11.0 Appendix 1 Definition of terms in the Microsoft Excel data base STABLE.xls

Header	Description	z	Units
Bst. No.	STABLE <i>burst</i> number	-	-
Date	Date of STABLE <i>burst</i>	-	-
Time	Time of STABLE <i>burst</i>	-	-
u-t	<i>Burst</i> average horizontal 'fore-aft' flow component	60.3 cm	(cm/s)
v-t	<i>Burst</i> average horizontal 'port-starboard' flow component	60.3 cm	(cm/s)
speed-t	<i>Burst</i> average current speed	60.3 cm	(cm/s)
dir-t	<i>Burst</i> average current direction re. STABLE	60.3 cm	(deg.)
u-b	<i>Burst</i> average horizontal fore-aft flow component	30.5 cm	(cm/s)
v-b	<i>Burst</i> average horizontal port-starboard flow component	30.5 cm	(cm/s)
speed-b	<i>Burst</i> average current speed	30.5 cm	(cm/s)
dir-b	<i>Burst</i> average current direction re. STABLE	30.5 cm	(deg)
uw-b	<i>Burst</i> average Reynolds stress $\overline{u'w'}$	30.5 cm	(cm ² /s ²)
vw-b	<i>Burst</i> average Reynolds stress $\overline{v'w'}$	30.5 cm	(cm ² /s ²)
uv-b	<i>Burst</i> average Reynolds stress $\overline{u'v'}$	30.5 cm	(cm ² /s ²)
Rstress-b	<i>Burst</i> average stress magnitude utilising the Reynolds stress method i.e. $(\overline{u'w'}^2 + \overline{v'w'}^2)^{0.5} = \tau/\rho$	30.5 cm	(cm ² /s ²)
dir-S-b	<i>Burst</i> average stress direction i.e. $\tan^{-1}(\overline{v'w'}/\overline{u'w'})$	30.5 cm	(deg.)
U*(R)-b	<i>Burst</i> average shear velocity utilising the Reynolds stress method i.e. $(\tau/\rho)^{0.5}$	30.5 cm	(cm/s)
U*TKE-b	<i>Burst</i> average shear velocity utilising the Reynolds stress method i.e. $0.19*(1/2(\overline{u'_{t+w}} + \overline{v'_{t+w}} + \overline{w'_{t+w}}))$, waves included	30.5 cm	(cm/s)
uw-t	<i>Burst</i> average Reynolds stress $\overline{u'w'}$	60.3 cm	(cm ² /s ²)
vw-t	<i>Burst</i> average Reynolds stress $\overline{v'w'}$	60.3 cm	(cm ² /s ²)
uv-t	<i>Burst</i> average Reynolds stress $\overline{u'v'}$	60.3 cm	(cm ² /s ²)
Rstress-t	<i>Burst</i> average stress magnitude utilising the Reynolds stress method i.e. $(\overline{u'w'}^2 + \overline{v'w'}^2)^{0.5} = \tau/\rho$	60.3 cm	(cm ² /s ²)
dir-S-t	<i>Burst</i> average stress direction i.e. $\tan^{-1}(\overline{v'w'}/\overline{u'w'})$	60.3 cm	(deg.)
U*(R)-t	<i>Burst</i> average shear velocity utilising the Reynolds stress method i.e. $(\tau/\rho)^{0.5}$	60.3 cm	(cm/s)
U*TKE-t	<i>Burst</i> average shear velocity utilising the Reynolds stress method i.e. $0.19*(1/2(\overline{u'_{t+w}} + \overline{v'_{t+w}} + \overline{w'_{t+w}}))$, waves included	60.3 cm	(cm/s)
Ustar-P	<i>Burst</i> average shear velocity, ECM log-profile method	-	(cm/s)
Z0-P	<i>Burst</i> average apparent bed roughness, ECM log-profile method	-	(cm)
ub-wave	<i>Burst</i> average variance in u' time series attributable to waves	30.5 cm	(cm ² /s ²)
ub-turb	<i>Burst</i> average variance in u' time series attributable to turbulence	30.5 cm	(cm ² /s ²)
vb-wave	<i>Burst</i> average variance in v' time series attributable to waves	30.5 cm	(cm ² /s ²)

11.0 Appendix 1 Definition of terms in the Microsoft Excel data base STABLE.xls

Header	Description	z	Units
vb-turb	Burst average variance in v' time series attributable to turbulence	30.5 cm	(cm ² /s ²)
wb-wave	Burst average variance in w' time series attributable to waves	30.5 cm	(cm ² /s ²)
wb-turb	Burst average variance in w' time series attributable to turbulence	30.5 cm	(cm ² /s ²)
b-TKE-U*	Burst average shear velocity utilising the TKE method i.e. $0.19*(1/2(\overline{u'^2_t} + \overline{v'^2_t} + \overline{w'^2_t}))$, waves excluded	30.5 cm	(cm/s)
RMS-w-b	RMS wave orbital speed i.e. $(\overline{u'^2_w} + \overline{v'^2_w})^{0.5}$	30.5 cm	(cm/s)
DIR-w-b	Burst average wave direction i.e. $\tan^{-1}(\overline{v'_w} / \overline{u'_w})$	30.5 cm	(deg.)
ut-wave	Burst average variance in u' time series attributable to waves	60.3 cm	(cm ² /s ²)
ut-turb	Burst average variance in u' time series attributable to turbulence	60.3 cm	(cm ² /s ²)
vt-wave	Burst average variance in v' time series attributable to waves	60.3 cm	(cm ² /s ²)
vbt-turb	Burst average variance in v' time series attributable to turbulence	60.3 cm	(cm ² /s ²)
wt-wave	Burst average variance in w' time series attributable to waves	60.3 cm	(cm ² /s ²)
wt-turb	Burst average variance in w' time series attributable to turbulence	60.3 cm	(cm ² /s ²)
t-TKE-U*	Burst average shear velocity utilising the TKE method i.e. $0.19*(1/2(\overline{u'^2_t} + \overline{v'^2_t} + \overline{w'^2_t}))$, waves excluded	60.3 cm	(cm/s)
RMS-w-t	RMS wave orbital speed i.e. $(\overline{u'^2_w} + \overline{v'^2_w})^{0.5}$	60.3 cm	(cm/s)
DIR-w-t	Burst average wave direction i.e. $\tan^{-1}(\overline{v'_w} / \overline{u'_w})$	60.3 cm	(deg.)
u/U*-b	Burst average normalised RMS turbulence intensity (u')	30.5 cm	(cm/s)
u/U*-t	Burst average normalised RMS turbulence intensity (u')	60.3 cm	(cm/s)
v/U*-b	Burst average normalised RMS turbulence intensity (v')	30.5 cm	(cm/s)
v/U*-t	Burst average normalised RMS turbulence intensity (v')	60.3 cm	(cm/s)
w/U*-b	Burst average normalised RMS turbulence intensity (w')	30.5 cm	(cm/s)
w/U*-t	Burst average normalised RMS turbulence intensity (w')	60.3 cm	(cm/s)
Cd-b-RS	Burst average drag coefficient from Reynolds stress shear velocity estimates i.e. U_*^2 / S_{30}^2	30.5 cm	(-)
Cd-t-RS	Burst average drag coefficient from Reynolds stress shear velocity estimates i.e. U_*^2 / S_{30}^2	60.3 cm	(-)
Cd-b-TKE	Burst average drag coefficient from TKE shear velocity estimates i.e. U_*^2 / S_{30}^2	30.5 cm	(-)
Cd-t-TKE	Burst average Cd from TKE i.e. U_*^2 / S_{60}^2	60.3 cm	(-)
Za-b-RS	Burst average apparent bed roughness from RS shear velocity estimates i.e. $z \exp(-k/C_z^{0.5})$	30.5 cm	(cm)
Za-t-RS	Burst average apparent bed roughness from RS shear velocity estimates i.e. $z \exp(-k/C_z^{0.5})$	60.3 cm	(cm)
Za-b-TKE	Burst average apparent bed roughness from TKE shear velocity estimates i.e. $z \exp(-k/C_z^{0.5})$	30.5 cm	(cm)

11.0 Appendix 1 Definition of terms in the Microsoft Excel data base STABLE.xls

Header	Description	z	Units
Za-t-TKE	<i>Burst</i> average apparent bed roughness from TKE shear velocity estimates i.e. $z \exp(-k/C_z^{0.5})$	60.3 cm	(cm)
RMSw/S-b	Ratio of RMS wave orbital speed: current speed	30.5 cm	(-)
RMSw/S-t	Ratio of RMS wave orbital speed: current speed	60.3 cm	(-)
E/S**2-b	Ratio of turbulent kinetic energy: current speed ²	30.5 cm	(-)
E/S**2-t	Ratio of turbulent kinetic energy: current speed ²	60.3 cm	(-)
Depth	<i>Burst</i> average water depth	174.5 cm	(m)
R1	<i>Burst</i> average current speed rotor 1	39 cm	(cm/s)
R2	<i>Burst</i> average current speed rotor 2	57 cm	(cm/s)
R3	<i>Burst</i> average current speed rotor 3	75 cm	(cm/s)
R4	<i>Burst</i> average current speed rotor 4	93 cm	(cm/s)
Z0-rot	<i>Burst</i> average apparent bed roughness from log-profile (rotors)	-	(cm)
C100	<i>Burst</i> average drag coefficient, rotor log-profile i.e. U_*^2 / Rz^2	-	(-)
U*-R	<i>Burst</i> average shear velocity, rotor log-profile	-	(cm/s)
Tau-R	<i>Burst</i> average shear stress, rotor log-profile	-	(cm ² /s ²)
vane	<i>Burst</i> average current direction recorded by STABLE vane	107.5 cm	(degrees)
compass	<i>Burst</i> average rig heading from onboard STABLE compass	-	
OBS-1	<i>Burst</i> average SPM concentration	30.5 cm	-
OBS-1	<i>Burst</i> average SPM concentration	60.3 cm	-
700(9)	<i>Burst</i> average SPM concentration, 700 kHz ABS device	cell 9	-
700(19)	<i>Burst</i> average SPM concentration, 700 kHz ABS device	cell 19	-
700(29)	<i>Burst</i> average SPM concentration, 700 kHz ABS device	cell 29	-
700(39)	<i>Burst</i> average SPM concentration, 700 kHz ABS device	cell 39	-
700(49)	<i>Burst</i> average SPM concentration, 700 kHz ABS device	cell 49	-
700(59)	<i>Burst</i> average SPM concentration, 700 kHz ABS device	cell 59	-
2(9)	<i>Burst</i> average SPM concentration, 2.0 MHz ABS device	cell 9	-
2(19)	<i>Burst</i> average SPM concentration, 2.0 MHz ABS device	cell 19	-
2(29)	<i>Burst</i> average SPM concentration, 2.0 MHz ABS device	cell 29	-
2(39)	<i>Burst</i> average SPM concentration, 2.0 MHz ABS device	cell 39	-
2(49)	<i>Burst</i> average SPM concentration, 2.0 MHz ABS device	cell 49	-
2(59)	<i>Burst</i> average SPM concentration, 2.0 MHz ABS device	cell 59	-
4(9)	<i>Burst</i> average SPM concentration, 4.0 MHz ABS device	cell 9	-
4(19)	<i>Burst</i> average SPM concentration, 4.0 MHz ABS device	cell 19	-
4(29)	<i>Burst</i> average SPM concentration, 4.0 MHz ABS device	cell 29	-
4(39)	<i>Burst</i> average SPM concentration, 4.0 MHz ABS device	cell 39	-
4(49)	<i>Burst</i> average SPM concentration, 4.0 MHz ABS device	cell 49	-
4(59)	<i>Burst</i> average SPM concentration, 4.0 MHz ABS device	cell 59	-

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BST.No.	Date	Time	Depth	U-t	V-t	SPEED-t	DIR-t	U-b	V-b	SPEED-b	DIR-b	UW-b	VW-b	UV-b	Rstres-b	dir-S-b	U*(R)-b	U*TKE-b	UW-t
61	151094	200	25.45	14.3	-25.2	29.4	-60.2	16.5	-27.9	32.7	-59.3	1.19	-2.11	-2.37	2.42	-60.7	1.56	2.32	1.38
62	151094	300	25.35	15.1	-20.1	25.5	-52.4	18.6	-23.7	30.4	-51.4	0.62	-0.79	-1.50	1.01	-52.0	1.00	1.93	0.48
63	151094	400	24.93	9.4	-9.7	14.1	-44.4	11.6	-11.1	16.5	-42.2	0.31	-0.32	2.36	0.45	-45.9	0.67	1.53	0.24
64	151094	500	24.24	1.5	6.4	7.5	58.4	3.1	6.5	8.0	51.5	-0.09	-0.13	3.36	0.15	-124.4	0.39	1.63	-0.16
65	151094	600	23.40	-9.1	19.5	21.8	116.6	-8.0	19.7	21.5	113.5	-0.24	1.12	-0.73	1.15	102.2	1.07	1.91	-0.58
66	151094	700	22.65	-17.0	26.5	31.8	123.5	-16.3	27.5	32.3	121.4	-1.09	2.84	-3.80	3.04	111.0	1.74	2.31	-1.63
67	151094	800	22.19	-18.4	26.5	32.6	125.7	-18.6	27.8	33.8	124.5	-1.39	4.05	-5.37	4.28	109.0	2.07	2.43	-2.02
68	151094	900	22.10	-15.7	20.3	26.0	128.8	-18.3	23.7	30.3	128.4	-0.46	1.29	1.99	1.37	109.7	1.17	2.05	-0.76
69	151094	1000	22.40	-10.9	12.6	17.1	131.8	-14.1	16.5	22.0	131.7	-0.63	0.41	-3.35	0.75	146.8	0.87	1.75	-0.28
70	151094	1100	23.04	-3.9	-3.8	6.8	-73.3	-5.0	-1.1	6.7	-28.4	0.05	0.43	2.05	0.44	83.6	0.66	1.55	-0.11
71	151094	1200	23.88	4.8	-16.6	17.4	-72.9	3.1	-15.9	16.3	-78.1	0.00	-0.73	1.14	0.73	-90.1	0.85	1.40	-0.20
72	151094	1300	24.76	12.3	-26.5	29.5	-64.9	13.3	-29.4	32.5	-65.5	0.84	-1.39	-2.01	1.63	-58.8	1.28	1.83	0.66
73	151094	1400	25.37	15.8	-28.8	33.1	-61.0	17.9	-31.8	36.7	-60.5	1.12	-2.64	-5.56	2.87	-67.1	1.69	2.23	1.62
74	151094	1500	25.55	19.5	-29.5	35.7	-56.4	22.3	-33.5	40.4	-56.2	0.91	-1.74	-2.71	1.96	-62.5	1.40	2.13	0.96
75	151094	1600	25.40	17.0	-18.6	25.4	-47.2	19.2	-21.5	29.0	-48.0	0.82	-1.09	-0.83	1.36	-53.1	1.17	1.72	0.79
76	151094	1700	24.95	11.3	-7.2	14.0	-31.1	12.7	-8.5	15.8	-32.6	0.62	-0.28	0.33	0.68	-24.7	0.82	1.55	0.40
77	151094	1800	24.19	0.8	9.3	9.5	84.6	1.8	9.6	9.9	78.8	0.00	0.44	0.89	0.44	90.0	0.66	1.19	-0.06
78	151094	1900	23.34	-9.0	24.0	25.8	110.9	-7.6	23.6	24.9	108.1	-0.90	1.35	-2.28	1.63	123.8	1.28	1.68	-1.00
79	151094	2000	22.71	-18.2	31.3	36.5	120.8	-20.5	34.5	40.3	121.2	-1.34	3.57	-7.77	3.82	110.5	1.95	2.50	-2.00
80	151094	2100	22.43	-15.5	29.4	33.4	118.3	-18.4	32.6	37.6	119.8	-1.47	3.76	-3.97	4.03	111.4	2.01	2.19	-1.03
81	151094	2200	22.59	-11.8	18.5	22.2	123.4	-15.6	23.0	28.0	124.8	-0.75	1.27	-3.97	1.47	120.6	1.21	1.82	-1.52
82	151094	2300	23.14	-8.2	4.9	10.6	97.1	-9.9	6.4	12.6	117.7	0.04	0.82	2.19	0.82	86.9	0.91	1.61	-0.38
83	161094	0	23.92	1.6	-7.5	9.0	-59.4	-0.8	-7.3	8.4	-74.7	0.37	-0.38	4.23	0.53	-46.1	0.73	1.97	-0.05
84	161094	100	24.81	11.4	-21.8	25.1	-61.6	10.1	-23.0	25.5	-65.7	0.45	-1.23	3.50	1.31	-69.8	1.15	2.03	0.57
85	161094	200	25.52	17.2	-27.9	33.4	-57.5	17.8	-30.0	35.4	-58.7	0.95	-2.02	4.31	2.24	-64.8	1.50	2.70	1.12
86	161094	300	25.79	18.4	-26.2	32.7	-54.0	19.0	-28.6	35.0	-55.6	0.75	-2.36	7.93	2.48	-72.4	1.57	2.70	0.66
87	161094	400	25.61	15.5	-20.9	26.8	-51.9	16.0	-22.9	28.6	-53.6	1.24	-1.11	8.31	1.66	-41.7	1.29	2.55	0.42
88	161094	500	25.10	9.8	-5.4	13.8	-24.4	11.5	-6.9	15.5	-26.8	0.44	0.05	11.07	0.44	6.4	0.67	2.72	0.50
89	161094	600	24.29	-0.2	9.6	12.1	58.0	1.5	8.4	11.0	47.6	-0.29	-0.26	12.44	0.39	-138.1	0.62	3.01	-0.05
90	161094	700	23.31	-11.3	24.2	27.7	115.2	-10.3	23.6	26.7	114.5	-1.90	-0.09	10.35	1.90	-177.3	1.38	3.60	-1.67
91	161094	800	22.43	-16.9	33.5	38.4	117.7	-15.9	33.3	37.8	115.9	-4.21	2.56	-0.84	4.93	148.7	2.22	4.18	-4.53
92	161094	900	21.91	-19.2	32.6	39.0	121.2	-21.1	34.7	41.7	121.0	-2.21	3.88	8.66	4.46	119.7	2.11	4.44	-2.67
93	161094	1000	21.81	-16.4	25.2	31.4	116.3	-22.3	30.2	38.8	123.3	-1.31	3.80	3.28	4.02	109.0	2.00	4.32	-1.06
94	161094	1100	22.15	-8.2	9.2	17.0	58.7	-9.9	10.3	18.2	68.8	-0.15	1.50	7.71	1.51	95.6	1.23	4.26	0.34
95	161094	1200	22.87	-1.5	-2.6	12.4	-19.0	-2.9	1.3	12.0	1.7	0.17	1.40	14.81	1.41	83.3	1.19	4.21	-0.41

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96	161094	1300	23.83	6.6	-17.4	21.1	-55.8	5.0	-18.2	20.8	-62.0	-0.03	0.24	15.49	0.25	98.2	0.50	4.17	0.07
97	161094	1400	24.79	14.7	-31.0	35.8	-60.5	15.5	-34.8	39.3	-63.1	0.58	-4.80	27.88	4.84	-83.1	2.20	4.43	1.35
98	161094	1500	25.46	16.8	-35.7	40.5	-62.8	18.6	-41.1	45.9	-64.2	1.76	-3.41	21.95	3.83	-62.7	1.96	4.03	1.93
99	161094	1600	25.63	19.6	-29.0	36.6	-52.8	20.5	-33.1	40.2	-55.7	1.64	-4.36	24.33	4.66	-69.5	2.16	4.28	1.31
100	161094	1700	25.40	15.4	-22.3	28.9	-51.1	19.0	-27.9	35.0	-53.1	1.90	-1.36	17.52	2.33	-35.7	1.53	3.92	1.60
101	161094	1800	24.85	8.9	-6.0	17.2	-22.6	11.4	-9.3	19.5	-28.9	0.68	0.45	28.01	0.81	33.3	0.90	4.65	1.06
102	161094	1900	23.95	-3.3	10.9	16.7	48.5	-1.6	9.4	15.1	42.1	-0.62	0.08	20.12	0.62	172.6	0.79	4.74	-0.26
103	161094	2000	22.95	-12.0	26.8	31.2	105.3	-12.8	27.3	32.0	108.3	-2.91	1.68	27.54	3.36	150.0	1.83	4.91	-1.80
104	161094	2100	22.22	-18.8	32.2	38.9	116.6	-20.4	34.5	41.6	116.7	-3.41	2.51	17.42	4.24	143.6	2.06	4.91	-3.50
105	161094	2200	22.00	-17.1	25.8	34.0	103.0	-22.1	31.0	40.7	110.9	-2.66	3.21	22.17	4.17	129.7	2.04	5.85	-1.07
106	161094	2300	22.29	-12.8	15.5	23.3	88.6	-15.9	18.4	27.0	101.8	-0.42	4.18	5.19	4.20	95.7	2.05	4.75	-0.27
107	171094	0	23.03	-5.1	-0.9	14.3	-9.6	-5.5	1.6	13.9	5.8	-0.07	-0.14	15.08	0.15	-116.4	0.39	4.56	-0.40
108	171094	100	24.01	4.2	-14.4	18.3	-54.8	1.0	-13.3	16.4	-59.6	0.05	-0.28	24.34	0.29	-80.9	0.54	4.26	0.18
109	171094	200	25.00	14.2	-27.7	32.4	-58.8	14.1	-31.0	35.0	-62.5	0.22	-2.33	24.00	2.34	-84.5	1.53	3.91	1.12
110	171094	300	25.70	15.7	-34.0	38.5	-62.3	18.3	-39.3	44.3	-63.0	0.12	-3.63	24.07	3.63	-88.1	1.90	4.18	0.90
111	171094	400	25.88	20.0	-31.0	37.9	-55.4	23.0	-37.0	44.3	-57.1	2.04	-3.26	6.95	3.85	-58.0	1.96	3.66	1.49
112	171094	500	25.59	14.6	-19.1	26.1	-47.7	16.0	-22.2	28.9	-50.4	1.33	-1.09	22.06	1.72	-39.4	1.31	3.84	2.23
113	171094	600	24.94	8.2	-1.6	12.7	-9.7	10.1	-3.6	14.3	-16.3	0.20	0.08	12.72	0.21	20.8	0.46	3.23	0.29
114	171094	700	24.00	-5.8	14.8	18.1	85.5	-4.1	13.1	16.1	78.4	-0.70	1.14	10.94	1.34	121.6	1.16	3.75	-0.64
115	171094	800	22.89	-14.9	31.3	35.9	115.1	-15.2	31.7	36.4	115.2	-3.19	1.21	16.41	3.41	159.3	1.85	4.34	-3.25
116	171094	900	21.97	-21.2	38.8	45.0	120.7	-22.3	40.0	46.7	120.4	-3.07	4.23	12.24	5.23	126.0	2.29	4.20	-3.15
117	171094	1000	21.51	-17.7	34.0	39.4	117.9	-20.5	37.2	43.5	118.6	-1.81	4.10	12.05	4.48	113.9	2.12	4.53	-1.91
118	171094	1100	21.56	-15.2	21.7	28.6	110.0	-17.4	22.5	30.5	109.9	-0.93	2.55	6.31	2.72	110.0	1.65	4.72	-0.65
119	171094	1200	22.12	-6.6	6.6	14.3	47.2	-10.2	9.5	17.4	72.7	-0.44	1.36	11.48	1.43	108.0	1.20	3.87	-0.21
120	171094	1300	23.06	1.4	-8.1	12.3	-46.9	-1.2	-7.4	11.4	-52.2	0.12	-0.49	10.24	0.50	-75.7	0.71	3.46	0.03
121	171094	1400	24.18	10.8	-26.7	29.8	-64.5	9.9	-27.4	30.1	-67.1	0.28	-1.99	19.96	2.01	-82.1	1.42	3.45	0.66
122	171094	1500	25.17	19.1	-36.3	41.9	-61.1	18.1	-38.3	43.1	-63.5	1.94	-3.79	9.91	4.26	-62.8	2.06	3.77	2.87
123	171094	1600	25.75	19.6	-36.2	42.1	-60.3	21.5	-40.8	46.9	-61.2	2.67	-4.74	14.51	5.44	-60.6	2.33	3.92	3.21
124	171094	1700	25.74	20.5	-30.8	38.0	-54.5	21.7	-34.3	41.5	-56.2	1.39	-3.26	16.41	3.54	-66.9	1.88	3.75	1.82
125	171094	1800	25.31	14.5	-17.4	24.7	-45.8	18.4	-22.1	30.1	-47.6	0.59	-1.19	23.16	1.33	-63.8	1.15	3.36	0.98
126	171094	1900	24.58	3.9	2.9	11.7	8.3	7.3	0.5	12.7	-1.9	0.14	-0.30	19.37	0.33	-65.2	0.58	3.64	0.39
127	171094	2000	23.50	-9.9	20.8	24.6	103.8	-9.1	20.0	23.4	102.3	-1.90	0.40	9.84	1.94	168.2	1.39	3.83	-1.42
128	171094	2100	22.44	-18.4	34.7	40.0	119.9	-19.3	36.8	42.2	118.9	-3.44	2.37	3.51	4.18	145.5	2.04	3.86	-3.26
129	171094	2200	21.80	-21.3	34.6	41.5	122.8	-20.4	34.5	40.9	120.9	-2.99	3.56	1.38	4.65	130.0	2.16	4.05	-4.23
130	171094	2300	21.76	-18.3	27.8	34.4	121.5	-20.8	31.5	38.7	122.0	-1.81	3.18	3.27	3.66	119.6	1.91	4.04	-1.24
131	181094	0	22.29	-12.5	12.6	20.0	98.0	-15.3	15.2	23.4	109.7	-0.01	2.93	6.12	2.93	90.3	1.71	3.67	-0.35

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132	181094	100	23.25	-3.7	-8.0	12.5	-56.3	-6.1	-5.6	12.3	-48.9	0.29	1.07	21.49	1.11	74.7	1.06	3.45	0.37
133	181094	200	24.34	9.1	-22.7	25.7	-63.2	6.1	-21.9	23.7	-69.5	0.25	-1.37	18.17	1.40	-79.7	1.18	3.34	0.44
134	181094	300	25.35	17.5	-33.7	39.0	-60.7	16.4	-34.3	38.9	-62.9	1.39	-2.92	14.69	3.23	-64.5	1.80	3.74	1.35
135	181094	400	25.95	18.3	-34.8	40.1	-61.1	21.2	-39.4	45.4	-60.9	1.99	-3.31	11.82	3.86	-58.9	1.96	3.40	1.63
136	181094	500	25.95	17.0	-28.4	34.1	-57.0	19.3	-31.8	38.0	-57.5	1.43	-1.76	16.38	2.27	-50.9	1.51	3.21	1.17
137	181094	600	25.44	13.1	-13.3	21.3	-39.5	17.4	-17.7	26.6	-41.8	0.61	-1.51	19.66	1.63	-68.1	1.28	3.54	1.08
138	181094	700	24.64	2.3	5.6	12.5	20.0	5.5	4.2	12.8	13.1	0.03	0.43	24.08	0.44	85.5	0.66	3.92	0.50
139	181094	800	23.53	-12.4	22.0	27.0	111.8	-11.0	21.2	25.6	107.9	-1.99	1.31	18.51	2.38	146.6	1.54	4.02	-1.86
140	181094	900	22.36	-23.7	39.6	47.2	121.4	-21.3	39.6	46.0	117.4	-3.34	-1.10	4.96	3.51	-161.7	1.87	4.58	-6.32
141	181094	1000	21.51	-22.5	41.5	48.3	120.0	-21.3	43.3	49.3	116.1	-3.35	2.70	11.37	4.31	141.1	2.08	4.92	-3.87
142	181094	1100	21.21	-22.5	29.8	38.8	123.8	-20.4	29.6	37.4	119.3	-3.72	4.49	0.80	5.83	129.6	2.42	4.66	-2.55
143	181094	1200	21.50	-12.9	22.5	27.2	114.9	-19.0	31.5	37.7	121.9	-1.36	2.43	-3.91	2.78	119.3	1.67	3.72	-0.66
144	181094	1300	22.26	-6.8	0.4	13.7	-2.3	-6.4	2.2	13.1	11.2	1.78	-1.67	21.59	2.44	-43.2	1.56	3.98	-1.04
145	181094	1400	23.33	3.8	-17.8	20.4	-68.3	2.1	-16.5	18.7	-71.9	-0.12	-1.23	22.95	1.23	-95.5	1.11	3.84	1.02
146	181094	1500	24.50	13.2	-30.7	34.5	-65.4	12.9	-31.4	34.9	-66.4	1.08	-3.02	14.63	3.21	-70.4	1.79	3.65	1.60
147	181094	1600	25.35	17.8	-37.9	42.9	-64.5	17.9	-38.7	43.5	-65.0	4.17	-4.57	1.97	6.19	-47.7	2.49	4.05	4.07
148	181094	1700	25.67	17.9	-32.8	38.4	-61.6	21.7	-36.3	43.2	-59.2	2.24	-2.33	-9.71	3.24	-46.1	1.80	3.92	2.35
149	181094	1800	25.46	16.1	-24.2	30.6	-57.5	20.3	-27.7	35.4	-54.6	1.12	-1.69	-7.26	2.03	-56.4	1.42	3.79	3.45
150	181094	1900	24.89	6.2	-6.7	14.7	-34.9	8.4	-7.0	15.5	-32.9	2.00	0.01	-2.28	2.00	0.3	1.42	4.12	3.06
151	181094	2000	23.94	-6.3	12.5	17.9	90.6	-3.2	10.9	15.6	79.8	-1.93	1.67	-5.03	2.55	139.1	1.60	4.03	-3.09
152	181094	2100	22.73	-18.5	33.5	40.0	117.5	-16.8	34.5	40.1	114.8	-6.46	5.41	-20.29	8.42	140.1	2.90	4.89	-10.02
153	181094	2200	21.77	-26.7	45.9	54.3	119.5	-26.3	48.3	56.2	117.8	-3.36	6.32	-16.48	7.16	118.0	2.67	5.07	-6.04
154	181094	2300	21.33	-25.9	42.7	51.2	120.6	-26.9	45.9	54.5	119.7	-5.54	6.09	-4.39	8.23	132.3	2.87	4.89	-10.20
155	191094	0	21.48	-21.2	28.4	37.5	124.7	-27.8	36.5	47.5	126.3	-3.37	1.76	17.50	3.80	152.4	1.95	4.62	-3.44
156	191094	100	22.23	-7.1	4.2	16.3	29.6	-7.5	5.5	16.4	41.3	-0.60	2.05	40.60	2.14	106.4	1.46	4.84	-2.04
157	191094	200	23.32	2.3	-13.7	19.1	-75.1	-1.2	-12.4	17.7	-83.1	1.02	-1.18	28.80	1.55	-49.2	1.25	4.47	4.34
158	191094	300	24.49	12.7	-29.4	34.6	-67.7	13.4	-31.3	36.3	-67.8	3.44	-2.23	26.00	4.10	-32.9	2.03	4.61	5.14
159	191094	400	25.43	16.2	-40.5	45.7	-68.8	16.6	-41.2	46.3	-68.6	1.06	-3.58	22.86	3.73	-73.5	1.93	4.98	-0.38
160	191094	500	25.84	17.8	-36.5	42.7	-65.2	21.7	-42.0	48.9	-63.6	2.48	-3.70	9.75	4.45	-56.1	2.11	4.81	3.44
161	191094	600	25.64	16.1	-24.4	32.2	-59.7	19.3	-27.4	35.9	-57.3	2.89	-1.44	22.76	3.23	-26.4	1.80	4.72	5.00
162	191094	700	25.04	8.2	-5.8	15.9	-37.7	12.5	-9.1	19.2	-41.3	2.50	0.35	26.01	2.52	8.0	1.59	4.27	4.51
163	191094	800	24.07	-3.5	10.2	16.4	79.6	-0.9	9.6	15.2	70.3	-2.79	0.46	19.89	2.82	170.8	1.68	4.19	-1.84
164	191094	900	22.81	-15.5	31.6	37.2	115.0	-14.2	31.8	36.9	112.9	-5.48	3.68	7.02	6.60	146.2	2.57	4.52	-7.83
165	191094	1000	21.71	-23.6	40.1	47.9	120.1	-21.0	39.3	46.0	117.5	-9.86	8.09	-4.38	12.75	140.6	3.57	4.78	-10.71
166	191094	1100	21.08	-21.7	37.3	44.7	119.8	-21.9	38.8	46.0	118.9	-2.72	4.72	17.74	5.45	120.0	2.33	4.46	-4.24
167	191094	1200	21.08	-17.9	24.9	32.8	123.6	-16.5	24.4	31.6	121.4	-2.80	2.66	26.09	3.86	136.5	1.96	4.22	-3.07

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168	191094	1300	21.65	-9.4	10.8	20.1	80.4	-13.2	15.2	24.2	110.0	0.27	1.34	68.54	1.37	78.7	1.17	4.69	0.67
169	191094	1400	22.63	0.1	-4.9	13.6	-54.9	-1.6	-2.2	12.5	-38.4	4.03	0.64	52.77	4.08	9.0	2.02	4.33	5.81
170	191094	1500	23.86	11.6	-26.4	31.6	-66.7	8.4	-24.9	29.0	-71.0	3.07	-1.54	40.13	3.44	-26.6	1.85	4.39	4.45
171	191094	1600	24.97	20.3	-36.4	43.8	-61.8	21.2	-39.3	46.5	-62.4	1.45	-4.03	28.95	4.28	-70.2	2.07	4.80	1.57
172	191094	1700	25.65	17.9	-37.2	43.6	-65.4	18.7	-39.9	46.1	-65.8	3.19	-3.29	31.98	4.58	-45.9	2.14	4.90	3.60
173	191094	1800	25.68	18.5	-30.8	37.9	-60.5	20.5	-33.7	41.1	-60.0	3.26	-2.44	15.02	4.07	-36.9	2.02	4.38	3.45
174	191094	1900	25.24	15.2	-16.9	25.6	-52.4	19.2	-19.7	29.5	-49.0	3.60	-0.98	20.88	3.73	-15.3	1.93	4.21	5.66
175	191094	2000	24.44	3.2	4.5	13.2	24.8	7.2	3.3	13.4	11.7	-0.77	0.51	34.99	0.92	146.6	0.96	4.07	-0.12
176	191094	2100	23.21	-10.6	23.3	28.1	113.0	-9.2	23.6	27.8	109.4	-2.25	1.75	20.45	2.85	142.1	1.69	4.29	-2.88
177	191094	2200	21.99	-23.5	40.7	48.8	119.5	-20.6	40.3	47.0	116.5	-8.15	6.03	14.42	10.14	143.5	3.18	5.00	-10.85
178	191094	2300	21.23	-26.2	39.1	49.1	123.8	-23.4	38.6	47.2	121.0	-5.92	6.91	32.11	9.10	130.6	3.02	5.16	-8.16
179	201094	0	21.11	-21.4	33.5	41.8	121.8	-24.3	38.9	47.7	121.6	-4.46	3.28	32.50	5.54	143.7	2.35	4.77	-4.70
180	201094	100	21.63	-12.3	13.4	24.1	81.6	-19.1	21.6	32.7	115.7	0.37	2.54	94.23	2.56	81.6	1.60	5.21	1.76
181	201094	200	22.62	-4.7	-8.6	18.5	-77.0	-5.7	-4.5	16.7	-64.4	3.16	1.40	141.42	3.46	23.9	1.86	5.64	7.14
182	201094	300	23.77	9.4	-26.2	31.0	-69.3	8.0	-25.1	29.3	-71.0	2.32	-1.09	70.47	2.57	-25.1	1.60	4.54	4.52
183	201094	400	24.96	16.4	-37.1	43.0	-66.1	17.8	-38.3	44.5	-65.2	0.25	-3.92	61.84	3.93	-86.3	1.98	4.83	1.87
184	201094	500	25.72	18.3	-40.6	46.4	-65.9	19.5	-43.1	49.0	-65.9	0.48	-3.43	43.44	3.46	-82.0	1.86	4.49	-0.03
185	201094	600	25.84	20.4	-35.2	43.1	-60.6	22.8	-37.2	45.7	-59.4	2.61	-2.70	53.37	3.75	-45.9	1.94	4.83	2.42
186	201094	700	25.39	15.0	-18.8	27.2	-53.1	18.0	-20.5	29.8	-50.5	2.15	-0.88	55.13	2.32	-22.2	1.52	4.32	4.66
187	201094	800	24.66	6.1	1.6	13.7	-12.0	10.6	0.1	15.3	-17.4	1.98	0.85	73.15	2.15	23.2	1.47	4.28	4.40
188	201094	900	23.54	-8.0	17.7	24.2	94.1	-6.4	17.0	23.4	89.3	-1.17	2.53	84.09	2.78	114.9	1.67	5.18	1.82
189	201094	1000	22.32	-18.9	32.2	40.4	119.1	-20.0	35.0	42.9	118.3	-5.72	2.00	87.80	6.06	160.7	2.46	5.26	-2.84
190	201094	1100	21.40	-26.2	41.5	51.1	121.9	-27.5	46.1	55.3	121.0	-4.97	5.19	55.20	7.19	133.8	2.68	4.99	-4.89
191	201094	1200	21.04	-20.4	32.2	40.9	119.2	-17.2	31.9	39.0	116.3	-3.74	1.95	64.76	4.22	152.5	2.05	5.09	-3.28
192	201094	1300	21.31	-12.7	16.0	26.3	90.8	-17.3	22.1	32.5	109.6	0.30	1.95	115.50	1.98	81.4	1.41	5.58	2.01
193	201094	1400	22.15	-6.3	4.3	19.7	3.5	-10.0	8.0	21.7	37.4	0.12	0.70	175.50	0.71	80.6	0.84	6.20	1.14
194	201094	1500	23.22	4.3	-18.9	24.3	-72.6	2.2	-16.6	21.8	-75.8	1.22	0.43	96.38	1.30	19.6	1.14	5.01	5.39
195	201094	1600	24.42	15.2	-34.4	40.5	-66.0	16.3	-35.9	42.0	-65.4	1.61	-2.34	78.86	2.85	-55.4	1.69	4.94	2.33
196	201094	1700	25.35	18.5	-39.6	46.0	-65.2	21.3	-43.9	50.6	-64.4	1.71	-4.71	51.88	5.01	-70.1	2.24	4.85	2.28
197	201094	1800	25.69	19.2	-34.6	41.4	-61.5	21.5	-37.5	44.9	-60.6	2.55	-3.34	33.45	4.21	-52.7	2.05	4.36	2.08
198	201094	1900	25.47	17.1	-26.2	33.7	-57.5	18.5	-26.5	34.4	-55.9	2.94	-1.12	47.79	3.15	-20.8	1.77	4.08	3.80
199	201094	2000	24.88	9.5	-9.2	18.1	-49.4	12.5	-10.5	20.1	-45.5	2.48	0.53	61.07	2.53	12.1	1.59	4.15	5.32
200	201094	2100	23.89	-2.3	8.8	16.0	57.1	-0.6	8.8	15.0	58.7	-2.14	-0.43	80.97	2.18	-168.6	1.48	4.38	-0.64
201	201094	2200	22.66	-14.8	25.5	32.9	115.1	-13.5	25.7	32.4	112.5	-2.33	2.48	76.41	3.40	133.2	1.85	4.97	-2.10
202	201094	2300	21.63	-23.7	37.8	46.9	122.0	-24.3	41.6	50.1	120.3	-6.28	4.84	63.32	7.93	142.4	2.82	4.95	-3.32
203	211094	0	21.13	-22.4	34.2	43.7	122.1	-27.0	41.2	51.5	123.3	-4.67	3.05	77.56	5.58	146.9	2.36	5.21	-1.50

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204	211094	100	21.26	-15.2	19.9	29.4	103.3	-18.1	24.3	34.0	111.7	-0.92	1.67	95.86	1.91	118.9	1.38	5.24	1.05
205	211094	200	22.04	-9.4	3.5	17.3	7.3	-11.4	6.6	19.1	45.3	1.49	2.21	103.03	2.67	56.0	1.63	4.94	0.75
206	211094	300	23.14	2.1	-15.6	20.3	-73.8	-0.8	-14.6	19.0	-80.9	0.15	-1.02	81.64	1.03	-81.7	1.01	4.50	3.05
207	211094	400	24.37	12.4	-33.9	38.4	-68.7	12.2	-34.8	39.0	-69.7	-0.20	-3.02	69.03	3.03	-93.9	1.74	4.46	1.87
208	211094	500	25.40	18.7	-42.0	47.7	-66.0	21.4	-46.5	52.6	-65.4	1.71	-4.84	40.69	5.13	-70.6	2.27	4.50	1.64
209	211094	600	25.89	20.1	-39.6	45.9	-63.3	22.6	-42.9	49.8	-62.4	2.56	-4.41	27.06	5.10	-59.9	2.26	4.15	2.70
210	211094	700	25.75	17.4	-27.3	34.1	-57.9	19.1	-28.6	35.9	-56.9	1.85	-1.24	32.19	2.23	-33.9	1.49	3.67	1.55
211	211094	700	25.75	10.0	-11.7	19.1	-50.8	12.4	-12.6	20.7	-47.4	1.88	-0.09	55.05	1.88	-2.6	1.37	14.51	3.59
212	211094	800	25.18	-1.3	6.7	13.6	33.2	1.1	7.3	13.1	36.0	-0.51	-0.23	64.80	0.56	-155.6	0.75	15.77	0.33
213	211094	900	24.27	-13.9	25.1	30.8	119.4	-13.3	26.9	32.0	116.4	-2.37	1.43	47.68	2.77	149.0	1.66	15.41	-2.65
214	211094	1000	23.02	-22.9	39.4	46.8	120.3	-21.1	40.9	47.1	117.2	-6.52	6.20	15.79	9.00	136.5	3.00	17.56	-9.27
215	211094	1100	21.90	-25.0	38.7	47.3	123.0	-28.1	45.7	54.7	121.7	-3.49	5.02	26.79	6.12	124.8	2.47	18.03	-5.57
216	211094	1200	21.24	-19.1	27.6	35.0	125.0	-22.6	33.3	41.4	124.5	-1.23	3.24	26.42	3.47	110.7	1.86	12.96	-0.87
217	211094	1300	21.21	-12.6	9.7	20.1	83.5	-14.7	14.0	23.7	106.4	1.15	1.44	69.50	1.84	51.4	1.36	17.16	1.46
218	211094	1400	21.79	-1.3	-10.4	14.1	-81.8	-3.3	-6.1	10.9	-79.7	2.07	0.63	47.87	2.16	17.1	1.47	10.74	2.38
219	211094	1500	22.77	10.3	-29.1	32.5	-70.1	9.2	-28.2	31.2	-71.3	1.63	-1.35	33.52	2.11	-39.6	1.45	11.13	2.63
220	211094	1600	23.93	17.0	-38.9	43.4	-66.5	17.6	-40.2	44.7	-66.6	1.11	-2.08	14.38	2.36	-61.9	1.54	11.44	2.83
221	211094	1700	25.01	18.2	-36.9	42.1	-64.0	21.5	-40.0	46.2	-62.0	1.86	-3.80	7.67	4.23	-63.9	2.06	11.50	2.13
222	211094	1800	25.67	17.7	-32.3	37.7	-61.7	21.1	-35.3	41.9	-59.5	2.13	-2.62	6.71	3.37	-50.9	1.84	9.85	2.14
223	211094	1900	25.67	13.2	-18.0	23.3	-54.6	18.4	-21.1	28.7	-49.3	1.29	-0.44	7.01	1.36	-18.8	1.17	5.39	1.54
224	211094	2000	25.25	3.4	1.0	8.3	-10.4	8.4	-0.7	10.5	-20.4	1.07	0.29	21.39	1.10	15.1	1.05	6.35	1.82
225	211094	2100	24.48	-11.2	18.1	22.7	121.8	-8.6	18.2	21.5	116.0	-0.70	1.11	16.53	1.31	122.0	1.15	7.58	-1.88
226	211094	2200	23.31	-22.1	35.1	42.5	122.2	-19.2	35.7	41.6	118.1	-5.56	3.90	14.26	6.79	145.0	2.60	13.31	-8.04
227	211094	2300	22.11	-24.7	43.0	50.5	120.0	-26.6	48.4	56.1	118.7	-2.89	7.23	13.78	7.79	111.8	2.79	14.92	-4.99
228	221094	0	21.33	-23.9	31.4	40.4	127.2	-23.4	33.9	42.1	124.6	-2.28	5.12	12.68	5.60	114.0	2.37	11.75	-1.93
229	221094	100	21.13	-13.5	14.9	21.7	126.4	-16.5	20.0	27.0	127.6	-1.45	0.52	17.42	1.54	160.3	1.24	8.24	-1.29
230	221094	200	21.56	-4.3	-5.0	9.4	-91.1	-4.1	-2.3	8.2	-66.2	1.15	0.59	26.28	1.29	27.0	1.14	6.65	1.73
231	221094	300	22.54	5.6	-23.7	25.3	-75.9	5.0	-22.8	24.3	-76.7	0.97	-1.22	16.62	1.56	-51.6	1.25	6.41	2.26
232	221094	400	23.71	15.4	-36.3	40.2	-67.2	15.7	-37.8	41.6	-67.5	1.00	-3.00	9.49	3.16	-71.5	1.78	8.23	1.59
233	221094	500	24.86	18.0	-38.9	43.6	-65.6	20.3	-42.0	47.2	-64.4	1.89	-3.45	-2.19	3.93	-61.3	1.98	9.48	1.53
234	221094	600	25.63	16.1	-33.3	37.5	-64.4	18.6	-35.4	40.5	-62.5	2.75	-2.83	-4.36	3.95	-45.9	1.99	7.81	2.54
235	221094	700	25.77	14.7	-19.5	25.2	-54.0	18.4	-21.8	29.1	-50.5	1.55	-1.41	1.23	2.10	-42.2	1.45	5.09	1.76
236	221094	800	25.41	5.4	-2.2	7.9	-29.9	8.8	-3.3	10.5	-26.0	0.68	0.15	7.73	0.69	12.3	0.83	3.32	1.00
237	221094	900	24.73	-9.2	17.2	20.0	118.1	-7.0	17.1	19.0	112.3	-0.46	1.16	2.22	1.24	111.6	1.12	3.06	-1.11
238	221094	1000	23.64	-20.5	34.4	40.5	120.9	-18.0	34.8	39.7	117.1	-2.85	5.90	-6.92	6.56	115.8	2.56	8.20	-4.65
239	221094	1100	22.42	-23.0	40.4	47.0	119.8	-23.2	42.7	49.0	118.5	-2.97	5.08	-5.60	5.89	120.4	2.43	10.32	-4.19

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240	221094	1200	21.54	-21.1	33.7	40.3	122.4	-23.7	39.2	46.2	121.4	-2.00	4.98	2.54	5.37	111.9	2.32	8.37	-2.56
241	221094	1300	21.21	-15.3	16.7	23.3	131.9	-15.8	18.8	25.1	129.5	-1.09	1.18	5.59	1.61	132.8	1.27	4.94	-0.50
242	221094	1400	21.50	-7.3	-0.6	9.7	-21.2	-10.5	5.8	13.3	106.5	0.27	0.48	3.37	0.55	60.6	0.74	4.51	-0.40
243	221094	1500	22.37	4.7	-20.5	21.8	-76.7	2.0	-18.0	18.8	-82.7	0.96	-1.27	5.10	1.60	-52.9	1.26	4.32	1.29
244	221094	1600	23.46	14.7	-33.4	37.0	-66.7	13.4	-32.8	35.9	-68.1	2.06	-2.80	-9.39	3.48	-53.6	1.86	7.08	2.31
245	221094	1700	24.64	17.3	-41.1	45.1	-67.3	17.8	-42.4	46.5	-67.4	2.37	-4.71	-1.53	5.27	-63.3	2.30	8.12	2.01
246	221094	1800	25.52	19.7	-38.1	43.3	-62.9	22.8	-41.7	47.9	-61.5	1.58	-3.14	-2.31	3.51	-63.3	1.87	6.94	2.58
247	221094	1900	25.86	17.1	-24.6	30.3	-55.6	22.0	-29.2	36.8	-53.2	1.62	-1.78	-10.55	2.41	-47.6	1.55	5.08	2.19
248	221094	2000	25.60	10.4	-8.8	14.2	-41.7	13.6	-10.6	17.6	-38.6	1.00	-0.26	-1.87	1.03	-14.3	1.02	2.67	1.21
249	221094	2100	25.04	-3.5	7.5	9.4	108.3	-1.0	8.5	9.5	95.5	-1.21	0.66	-3.91	1.38	151.5	1.18	2.43	-0.75
250	221094	2200	24.05	-14.7	25.9	30.2	119.3	-11.3	25.5	28.3	113.1	-2.03	5.74	-11.89	6.09	109.5	2.47	5.86	-3.27
251	221094	2300	22.88	-22.0	38.9	45.0	119.5	-23.7	43.6	49.9	118.4	-2.82	7.96	-16.10	8.44	109.6	2.91	8.93	-4.75
252	231094	0	21.89	-22.1	35.0	41.8	122.2	-19.8	36.0	41.4	118.7	-0.78	3.92	-14.61	4.00	101.2	2.00	7.42	-3.39
253	231094	100	21.39	-18.3	24.8	31.1	126.8	-19.9	29.1	35.6	124.6	-1.56	4.27	-6.80	4.55	110.1	2.13	6.13	-1.94
254	231094	200	21.45	-7.7	7.8	11.5	130.3	-9.1	12.1	15.5	126.1	-1.22	1.74	-3.25	2.13	125.2	1.46	2.69	-0.42
255	231094	300	22.10	-3.5	-16.3	17.1	-101.9	-4.4	-13.4	14.5	-107.8	0.31	0.24	-0.31	0.39	37.7	0.62	2.01	0.55
256	231094	400	23.12	8.7	-30.7	32.3	-74.7	8.3	-29.4	30.9	-74.7	0.79	-1.87	-7.18	2.03	-67.0	1.42	4.39	0.78
257	231094	500	24.24	13.5	-38.6	41.3	-71.2	13.2	-37.3	40.0	-71.0	2.14	-3.62	-12.09	4.20	-59.4	2.05	7.35	2.96
258	231094	600	25.16	16.2	-34.3	38.3	-65.3	17.2	-34.4	38.8	-63.9	1.65	-2.93	-12.88	3.36	-60.7	1.83	7.11	2.53
259	231094	700	25.59	14.9	-31.2	34.9	-65.1	19.4	-35.0	40.2	-61.3	2.21	-1.79	-13.96	2.84	-39.0	1.69	4.60	1.47
260	231094	800	25.47	7.9	-15.4	17.6	-64.4	13.7	-19.0	23.6	-54.5	1.07	-0.65	-9.48	1.25	-31.2	1.12	2.29	0.58
261	231094	900	25.01	-2.2	0.7	4.3	32.0	2.0	-0.9	3.6	-13.5	0.46	0.36	-5.17	0.59	37.9	0.77	1.16	0.34
262	231094	1000	24.15	-14.3	21.4	25.9	123.7	-12.2	22.5	25.8	118.3	-0.45	2.21	-6.63	2.25	101.6	1.50	2.65	-1.05
263	231094	1100	23.09	-20.8	31.5	38.0	123.6	-19.8	33.3	38.9	120.8	-1.33	5.23	-6.31	5.39	104.3	2.32	5.18	-1.95
264	231094	1200	22.14	-23.3	31.0	39.0	127.1	-22.2	32.9	39.9	124.1	-1.99	5.73	-11.39	6.07	109.2	2.46	5.76	-3.02
265	231094	1300	21.64	-18.1	22.0	28.7	129.5	-18.9	25.6	32.0	126.5	-1.05	1.61	-7.84	1.93	123.2	1.39	3.75	-1.84
266	231094	1400	21.62	-11.9	6.9	14.0	147.3	-13.1	10.8	17.1	140.4	-0.24	0.50	-1.06	0.55	115.4	0.74	1.27	-0.55
267	231094	1500	22.20	-4.8	-14.4	15.3	-108.5	-5.9	-10.4	12.1	-119.5	0.20	0.10	-0.57	0.23	26.2	0.48	0.81	-0.15
268	231094	1600	23.14	6.8	-27.6	28.6	-76.3	6.8	-27.2	28.2	-76.1	0.59	-1.67	-2.15	1.77	-70.7	1.33	2.32	0.61
269	231094	1700	24.20	12.8	-37.5	39.9	-71.4	13.7	-38.8	41.4	-70.8	2.61	-2.94	-11.25	3.93	-48.4	1.98	5.48	2.03
270	231094	1800	25.17	14.9	-39.6	42.7	-69.6	15.1	-39.4	42.5	-69.0	2.26	-4.22	-10.33	4.78	-61.8	2.19	6.34	2.28
271	231094	1900	25.72	15.0	-28.5	32.5	-62.5	17.6	-29.9	34.9	-59.6	1.75	-2.00	-4.71	2.66	-48.8	1.63	4.26	1.57
272	231094	2000	25.69	9.9	-15.0	18.1	-56.8	12.4	-16.0	20.3	-52.1	1.06	-0.93	-1.88	1.41	-41.4	1.19	1.23	0.47
273	231094	2100	25.34	3.9	0.1	4.6	6.3	6.4	-0.5	6.7	-3.1	0.22	0.16	-1.59	0.27	35.3	0.52	0.62	0.45
274	231094	2200	24.65	-11.0	17.1	20.4	122.5	-7.8	17.0	18.8	114.4	-0.42	1.53	-6.64	1.59	105.2	1.26	1.53	-0.95
275	231094	2300	23.57	-19.8	32.3	38.0	121.7	-18.9	34.5	39.5	118.7	-0.96	4.18	-6.95	4.29	103.0	2.07	3.58	-1.81

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276	241094	0	22.53	-22.8	33.1	40.4	124.6	-25.8	39.9	47.7	122.9	-1.46	4.55	-10.88	4.78	107.9	2.19	5.28	-2.99
277	241094	100	21.82	-20.4	27.1	34.2	127.1	-22.4	32.1	39.4	125.0	-1.20	2.82	-3.71	3.06	113.1	1.75	3.62	-2.18
278	241094	200	21.58	-15.0	13.5	20.3	138.6	-16.4	17.0	23.7	134.3	-0.54	0.95	-2.59	1.09	119.6	1.04	1.32	-0.48
279	241094	300	21.93	-7.5	-4.6	9.0	-138.6	-7.7	-2.0	8.2	-110.5	0.34	0.32	0.25	0.47	43.2	0.69	0.69	-0.16
280	241094	400	22.73	2.6	-20.2	20.4	-82.6	1.4	-18.7	18.9	-85.7	0.20	-0.75	-0.83	0.78	-75.0	0.88	1.29	0.00
281	241094	500	23.71	11.3	-30.9	33.1	-69.9	12.4	-32.4	34.9	-69.0	1.12	-2.31	-4.51	2.57	-64.1	1.60	3.64	0.75
282	241094	600	24.76	13.7	-37.1	39.8	-69.8	16.0	-39.6	42.9	-68.1	2.17	-3.15	-4.48	3.82	-55.5	1.96	4.53	1.49
283	241094	700	25.54	17.9	-34.6	39.3	-62.8	21.4	-36.9	42.9	-59.9	3.90	-3.33	-4.44	5.13	-40.5	2.27	5.76	2.46
284	241094	800	25.72	14.4	-23.2	27.6	-58.5	17.0	-24.3	29.8	-55.2	1.48	-0.68	-3.76	1.63	-24.5	1.28	2.77	1.65
285	241094	900	25.47	6.0	-7.8	10.1	-52.0	10.9	-9.8	14.8	-41.6	0.69	0.35	-2.16	0.78	26.6	0.88	0.78	0.28
286	241094	1000	24.92	-6.6	11.7	13.5	119.6	-2.7	10.6	11.0	104.5	0.10	0.62	-3.46	0.63	81.1	0.79	0.72	-0.08
287	241094	1100	24.02	-18.0	27.0	32.6	123.7	-14.9	27.6	31.5	118.5	-0.74	3.38	-10.01	3.46	102.4	1.86	3.18	-1.60
288	241094	1200	22.95	-23.2	36.1	43.1	122.9	-24.2	40.6	47.4	121.0	-1.41	5.95	-6.34	6.11	103.4	2.47	5.21	-2.06
289	241094	1300	22.16	-21.7	28.8	36.2	127.0	-25.1	36.3	44.3	124.7	-1.07	3.04	-13.27	3.22	109.4	1.79	4.98	-2.67
290	241094	1400	21.86	-15.4	17.5	23.5	131.9	-16.9	21.5	27.4	128.5	-0.47	1.29	-4.12	1.37	109.9	1.17	2.43	-1.35
291	241094	1500	22.10	-7.7	0.9	8.5	37.6	-9.9	6.6	12.2	138.2	0.16	-0.95	-5.08	0.96	-80.5	0.98	1.31	-0.09
292	241094	1600	22.80	-0.7	-17.0	17.1	-92.6	-1.7	-14.5	14.6	-96.9	0.08	0.12	-0.16	0.14	57.7	0.38	0.77	0.10
293	241094	1700	23.68	7.7	-28.6	29.8	-75.1	9.6	-27.7	29.5	-71.0	0.37	-1.62	-3.91	1.66	-77.1	1.29	3.10	0.75
294	241094	1800	24.62	13.0	-35.0	37.6	-70.0	16.3	-36.3	40.0	-66.0	2.44	-3.33	-9.06	4.13	-53.8	2.03	5.05	0.92
295	241094	1900	25.34	13.1	-30.3	33.2	-66.9	16.3	-31.0	35.2	-62.3	2.62	-2.79	-7.74	3.83	-46.8	1.96	4.31	1.66
296	241094	2000	25.61	12.4	-20.3	23.9	-58.7	15.7	-20.8	26.2	-52.9	1.76	-1.55	-4.32	2.35	-41.3	1.53	2.09	0.39
297	241094	2100	25.40	6.7	-9.8	11.9	-55.8	11.2	-11.6	16.2	-45.7	0.44	-0.19	-2.53	0.48	-23.5	0.69	0.76	0.31
298	241094	2200	24.90	-4.0	7.2	8.4	117.0	-0.1	6.9	7.0	90.6	0.09	0.42	-4.58	0.43	78.4	0.66	0.43	-0.05
299	241094	2300	24.08	-14.5	23.9	28.0	121.3	-10.3	23.2	25.5	114.0	-0.26	1.60	-7.98	1.62	99.3	1.27	2.18	-0.81
300	251094	0	23.06	-19.3	32.3	37.8	121.3	-21.3	37.8	43.6	119.6	-1.18	6.56	-7.64	6.66	100.2	2.58	4.97	-1.44
301	251094	100	22.21	-25.3	32.0	41.0	128.6	-21.8	31.7	38.6	124.5	-1.58	4.33	-16.59	4.61	110.1	2.15	5.44	-3.01
302	251094	200	21.74	-15.0	20.4	25.5	126.6	-19.6	28.0	34.3	125.1	-0.83	1.94	-13.33	2.11	113.3	1.45	2.99	-1.06
303	251094	300	21.78	-12.2	10.9	16.5	139.3	-15.3	16.5	22.6	133.1	-0.40	0.94	-5.37	1.02	112.9	1.01	1.59	-0.41
304	251094	400	22.26	-3.3	-8.0	8.9	-113.5	-5.2	-3.6	6.5	-138.9	0.24	-0.17	-1.20	0.30	-35.2	0.55	0.44	-0.06
305	251094	500	23.02	3.4	-21.4	21.8	-81.2	2.4	-19.0	19.3	-82.7	0.30	-0.93	-2.39	0.98	-72.1	0.99	1.32	-0.06
306	251094	600	23.92	7.8	-31.0	32.2	-76.1	8.6	-30.6	31.9	-74.5	0.83	-1.62	-4.13	1.82	-62.9	1.35	2.80	1.66
307	251094	700	24.71	11.8	-31.9	34.3	-69.8	13.7	-32.5	35.5	-67.2	1.27	-1.94	-3.94	2.32	-56.8	1.52	3.54	1.30
308	251094	800	25.19	13.6	-26.3	29.8	-62.8	17.2	-28.2	33.3	-58.7	1.18	-1.26	-5.01	1.73	-47.1	1.31	3.30	1.39
309	251094	900	25.18	10.5	-16.1	19.3	-57.2	12.3	-15.8	20.1	-52.4	0.54	-0.52	-3.40	0.75	-44.1	0.86	1.57	0.85
310	251094	1000	24.87	3.0	-3.2	4.7	-38.0	6.6	-4.8	8.3	-35.7	0.24	0.04	-4.15	0.24	10.4	0.49	0.41	0.08
311	251094	1100	24.30	-6.8	13.7	15.4	116.2	-4.0	13.5	14.2	106.0	-0.02	0.75	-2.44	0.75	91.7	0.87	0.75	-0.13

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312	251094	1200	23.42	-15.2	25.0	29.4	121.6	-16.6	29.4	33.9	119.5	-1.15	3.16	-4.06	3.37	110.1	1.83	2.93	-1.64
313	251094	1300	22.59	-18.5	25.0	31.2	126.6	-17.8	27.0	32.5	123.4	-0.01	2.28	-5.08	2.28	90.2	1.51	3.10	-1.15
314	251094	1400	22.11	-17.3	19.3	26.1	132.0	-21.0	27.1	34.4	127.8	-1.12	2.47	-10.40	2.71	114.5	1.65	2.94	-2.00
315	251094	1500	22.08	-10.9	6.9	13.0	147.7	-13.2	12.1	18.0	137.8	0.49	-0.30	-3.78	0.58	-32.0	0.76	1.01	-0.55
316	251094	1600	22.50	-5.2	-9.3	10.8	-119.1	-6.4	-5.6	8.6	-138.6	0.07	0.21	-0.27	0.22	72.7	0.47	0.40	-0.03
317	251094	1700	23.22	1.8	-19.7	19.9	-85.0	1.0	-16.9	17.0	-86.6	0.54	-0.61	-0.99	0.82	-48.7	0.90	1.00	0.08
318	251094	1800	24.05	7.2	-26.9	28.0	-75.3	9.0	-27.0	28.6	-71.7	0.78	-1.30	-4.12	1.51	-59.0	1.23	2.79	1.06
319	251094	1900	24.82	11.3	-28.1	30.5	-68.4	12.7	-27.5	30.4	-65.4	1.34	-1.74	-5.15	2.20	-52.3	1.48	3.49	1.02
320	251094	2000	25.31	11.6	-26.5	29.1	-66.5	14.8	-27.1	31.1	-61.4	1.42	-1.92	-4.19	2.39	-53.5	1.55	2.95	0.18
321	251094	2100	25.40	9.9	-14.6	17.7	-56.3	13.6	-15.4	20.6	-48.7	1.24	-1.16	-4.30	1.70	-43.0	1.30	1.54	0.34
322	251094	2200	25.14	2.5	-2.5	3.9	-44.3	5.3	-2.3	6.0	-22.8	0.43	-0.17	-1.29	0.46	-21.4	0.68	0.41	0.05
323	251094	2300	24.56	-7.1	11.0	13.2	122.6	-4.1	11.4	12.2	109.3	0.00	0.35	-2.61	0.35	90.3	0.59	0.81	-0.32
324	261094	0	23.73	-13.4	25.1	28.6	118.1	-12.9	28.5	31.4	114.4	-0.18	2.14	-3.35	2.15	94.9	1.47	2.09	-0.89
325	261094	100	22.92	-20.9	29.1	36.0	125.7	-24.9	36.4	44.2	124.4	-0.53	3.82	-8.04	3.85	98.0	1.96	3.60	-1.61
326	261094	200	22.29	-18.2	23.1	29.6	128.4	-20.1	27.5	34.2	126.3	-1.06	2.50	-3.36	2.71	113.0	1.65	2.99	-1.47
327	261094	300	22.03	-14.1	16.1	21.5	131.4	-16.1	21.2	26.7	127.2	-0.50	1.10	-4.61	1.21	114.4	1.10	2.03	-1.12
328	261094	400	22.17	-7.6	2.0	8.5	63.1	-9.6	6.1	11.7	140.2	-0.08	1.15	-1.85	1.15	93.9	1.07	1.19	-0.01
329	261094	500	22.73	-1.5	-13.9	14.1	-96.4	-3.4	-11.4	12.0	-106.8	0.25	-0.25	0.34	0.35	-44.2	0.59	0.79	0.12
330	261094	600	23.46	5.2	-24.5	25.2	-77.9	5.0	-22.6	23.3	-77.4	0.58	-1.10	-1.08	1.24	-62.5	1.12	2.15	0.43
331	261094	700	24.27	9.4	-30.1	31.7	-72.7	10.9	-30.6	32.7	-70.4	0.53	-1.81	-3.27	1.88	-73.7	1.37	2.83	0.51
332	261094	800	24.95	11.6	-29.1	31.5	-68.4	12.0	-27.6	30.3	-66.7	0.77	-2.03	-5.58	2.17	-69.2	1.47	4.10	0.85
333	261094	900	25.21	13.7	-24.5	28.3	-61.0	17.7	-27.1	32.5	-56.9	2.17	-1.37	-6.66	2.57	-32.1	1.60	3.28	1.28
334	261094	1000	25.13	6.5	-12.8	14.6	-62.6	8.5	-12.5	15.3	-55.1	0.53	-0.20	-1.66	0.57	-20.3	0.75	1.65	0.89
335	261094	1100	24.80	2.5	0.9	4.6	7.0	5.9	0.8	6.8	4.9	0.26	0.01	1.00	0.26	3.2	0.51	1.27	0.27
336	261094	1200	24.16	-9.4	14.3	17.4	124.7	-7.0	15.4	17.2	115.4	0.39	0.39	-1.62	0.55	45.4	0.74	2.14	-0.60
337	261094	1300	23.39	-15.5	20.6	26.1	128.2	-14.5	22.8	27.3	123.5	-0.66	1.77	-2.26	1.88	110.5	1.37	5.08	-2.29
338	261094	1400	22.79	-18.8	20.9	28.4	132.7	-17.4	22.7	28.9	128.1	-0.78	1.73	-1.07	1.90	114.1	1.38	3.57	-0.46
339	261094	1500	22.49	-14.6	13.8	20.6	135.9	-13.6	15.6	21.1	131.5	-1.08	2.54	-2.83	2.76	113.1	1.66	3.64	-0.41
340	261094	1600	22.55	-9.6	2.8	11.1	59.5	-9.5	5.8	11.9	119.7	0.37	1.69	2.35	1.73	77.6	1.32	2.16	-0.14
341	261094	1700	22.94	-5.6	-9.0	11.1	-113.9	-6.0	-5.8	9.1	-96.2	0.51	0.21	5.54	0.55	22.1	0.74	2.78	0.06
342	261094	1800	23.54	0.9	-16.6	16.8	-85.9	0.4	-14.1	14.3	-86.8	0.31	-0.64	2.23	0.71	-64.3	0.84	2.59	-0.05
343	261094	1900	24.23	3.7	-24.3	24.8	-80.9	5.9	-24.2	25.1	-75.8	0.61	-1.30	2.01	1.44	-64.7	1.20	3.54	0.62
344	261094	2000	24.85	7.8	-24.8	26.3	-72.0	9.4	-24.7	26.7	-68.8	1.23	-1.21	0.13	1.73	-44.5	1.31	4.28	0.66
345	261094	2100	25.17	7.7	-22.2	24.0	-69.9	10.7	-22.7	25.4	-64.0	1.22	-1.55	3.40	1.97	-51.7	1.40	3.90	1.17
346	261094	2200	25.16	4.9	-12.3	13.6	-65.4	6.8	-11.4	13.7	-56.7	0.21	-0.13	2.96	0.25	-32.4	0.50	2.29	0.08
347	261094	2300	24.89	1.4	-1.2	4.8	-18.2	4.3	-1.2	6.1	-13.4	0.33	0.06	1.72	0.33	9.8	0.58	2.08	-0.01

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348	271094	0	24.33	-8.6	11.9	15.2	124.1	-6.6	12.7	14.7	119.5	0.03	0.46	0.77	0.46	86.4	0.68	3.52	-0.25
349	271094	100	23.58	-14.5	20.6	25.6	126.5	-13.3	22.4	26.4	121.7	-0.74	1.27	1.37	1.47	120.4	1.21	4.26	-1.12
350	271094	200	22.88	-18.7	23.2	30.4	130.0	-18.0	26.0	32.1	125.8	-1.88	4.79	-5.34	5.14	111.5	2.27	7.57	-2.77
351	271094	300	22.37	-16.7	18.2	25.3	133.6	-18.8	22.8	30.0	130.1	-0.18	1.17	-2.43	1.18	98.7	1.09	6.32	-1.05
352	271094	400	22.21	-13.4	11.7	18.5	128.9	-17.2	18.6	25.7	133.4	0.28	0.47	-5.34	0.55	59.6	0.74	3.78	-0.51
353	271094	500	22.38	-7.1	-0.5	9.0	-8.8	-7.3	2.8	9.3	53.2	-0.09	-0.37	3.70	0.38	-103.4	0.62	3.19	0.09
354	271094	600	22.82	-3.1	-10.8	11.7	-97.8	-3.4	-7.2	8.9	-90.9	0.55	-0.32	6.73	0.64	-29.9	0.80	3.59	0.07
355	271094	700	23.44	1.8	-20.7	21.0	-84.3	2.3	-19.1	19.4	-82.6	0.26	-1.13	1.98	1.16	-77.2	1.08	2.84	0.25
356	271094	800	24.13	6.0	-26.0	27.0	-76.2	7.1	-25.5	26.7	-73.7	0.45	-1.10	5.26	1.19	-68.0	1.09	4.19	0.42
357	271094	900	24.68	8.3	-23.2	25.0	-69.4	9.9	-23.4	25.8	-66.3	1.11	-1.31	3.58	1.71	-49.8	1.31	4.22	1.01
358	271094	1000	24.89	10.7	-19.8	22.9	-60.8	13.8	-20.6	25.2	-55.4	0.93	-0.56	3.71	1.09	-31.0	1.04	3.54	0.65
359	271094	1100	24.83	4.7	-12.1	13.6	-66.1	8.0	-12.3	15.2	-54.9	0.86	-0.29	3.38	0.90	-18.7	0.95	2.86	0.00
360	271094	1200	24.53	-0.2	-0.7	5.9	-3.3	4.8	-2.4	7.2	-20.1	0.33	-0.22	-0.57	0.39	-33.4	0.63	2.97	0.00

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VW-t	UV-t	Rstres-t	dir-S-t	U*(R)-t	U*TKE-t	Ustar-P	Z0-P	Ub-wave	Ub-turb	Vb-wave	Vb-turb	b-TKE-U*	RMS-w-b	DIR-w-b	Ut-wave	Ut-turb	Vt-wave	Vt-turb	t-TKE-U*
-2.43	-3.76	2.80	-60.39	1.67	2.33	1.71	0.031	0.20	4.52	0.79	4.95	1.04	0.81	75.8	0.20	4.50	0.78	4.89	1.04
-0.62	-0.41	0.78	-52.39	0.88	2.05	2.56	0.560	0.23	3.43	1.05	4.35	0.85	1.07	77.6	0.21	3.12	1.00	4.14	0.81
-0.30	2.14	0.38	-51.12	0.62	1.61			0.27	2.36	1.18	3.27	0.60	1.21	76.9	0.23	1.97	1.16	3.21	0.57
-0.22	3.24	0.27	-126.35	0.52	1.72			0.18	1.55	1.80	3.45	0.54	1.81	83.9	0.16	1.39	1.72	3.30	0.51
0.70	0.01	0.91	129.73	0.96	1.99			0.08	2.27	1.37	4.53	0.75	1.37	86.4	0.08	2.23	1.30	4.32	0.73
3.22	-2.37	3.61	116.94	1.90	2.37	0.25		0.14	3.31	1.14	5.51	1.00	1.15	83.0	0.13	3.20	1.11	5.34	0.99
3.91	-4.23	4.40	117.37	2.10	2.48	0.61		0.08	3.56	1.06	5.90	1.07	1.06	85.7	0.08	3.61	1.02	5.68	1.07
2.91	0.78	3.00	104.73	1.73	2.00	2.19	0.256	0.10	2.90	1.13	4.44	0.83	1.13	84.9	0.10	2.89	1.16	4.56	0.86
1.85	-1.17	1.87	98.65	1.37	1.85	2.54	2.032	0.13	2.79	1.05	4.10	0.75	1.06	82.6	0.11	2.35	1.02	3.98	0.70
0.39	3.44	0.41	105.19	0.64	1.60			0.22	1.53	1.66	3.18	0.51	1.68	82.4	0.20	1.45	1.61	3.08	0.49
-0.50	1.74	0.54	-111.29	0.73	1.51			0.15	1.94	0.98	3.34	0.59	1.00	80.9	0.14	1.78	0.91	3.09	0.55
-1.23	-0.32	1.40	-61.74	1.18	1.88	1.56	0.015	0.07	3.50	0.52	4.23	0.86	0.53	82.5	0.06	3.30	0.52	4.16	0.84
-2.48	-4.17	2.96	-56.89	1.72	2.28	1.86	0.024	0.07	4.22	0.51	5.32	1.06	0.52	81.8	0.07	4.11	0.49	5.16	1.04
-1.92	-1.87	2.15	-63.38	1.47	2.19	2.48	0.095	0.13	4.39	0.43	4.86	1.02	0.45	73.2	0.12	4.01	0.43	4.86	1.00
-1.32	-1.88	1.54	-59.26	1.24	1.69	1.85	0.122	0.12	3.17	0.45	3.75	0.78	0.47	74.5	0.13	3.23	0.46	3.79	0.80
-0.25	0.36	0.47	-32.06	0.69	1.55			0.19	2.50	0.97	3.22	0.61	0.99	78.8	0.18	2.40	0.98	3.25	0.62
0.17	1.20	0.18	109.08	0.43	1.31			0.08	1.47	0.82	3.03	0.51	0.83	84.0	0.07	1.30	0.76	2.77	0.46
1.22	-3.41	1.57	129.45	1.25	1.70			0.05	2.76	0.51	4.04	0.78	0.51	84.2	0.05	2.79	0.50	3.95	0.77
3.29	-8.73	3.85	121.29	1.96	2.54	1.99	0.019	0.04	3.80	0.57	6.50	1.15	0.57	85.8	0.04	3.78	0.56	6.34	1.14
3.88	-3.79	4.02	104.90	2.00	2.25	2.17	0.064	0.10	3.17	0.64	5.61	1.01	0.65	81.1	0.10	3.23	0.61	5.37	1.00
2.51	-2.23	2.94	121.19	1.71	1.86	3.00	1.559	0.03	2.98	0.76	4.35	0.81	0.76	87.9	0.02	2.87	0.73	4.19	0.81
0.14	1.54	0.40	160.30	0.63	1.62			0.11	1.96	0.91	3.84	0.63	0.91	83.2	0.11	1.95	0.90	3.83	0.63
0.15	4.85	0.16	107.21	0.40	2.10			0.08	2.05	1.45	4.96	0.74	1.46	86.5	0.07	1.82	1.38	4.69	0.69
-1.55	2.53	1.66	-69.73	1.29	2.11			0.09	3.82	0.43	5.05	0.96	0.44	78.1	0.09	3.67	0.42	4.83	0.93
-2.00	3.42	2.29	-60.62	1.51	2.81			0.38	4.75	0.88	6.48	1.23	0.96	66.7	0.37	4.65	0.83	6.10	1.20
-1.93	6.97	2.04	-71.04	1.43	2.77			0.62	4.42	1.08	6.18	1.16	1.24	59.7	0.60	4.25	1.05	6.02	1.14
-0.97	8.96	1.06	-66.35	1.03	2.64	0.91													
0.98	9.35	1.10	63.13	1.05	2.84			0.80	2.54	3.79	4.77	0.75	3.87	77.9	0.75	2.37	3.64	4.58	0.73
0.58	12.47	0.58	94.99	0.76	3.18			0.80	2.86	4.34	5.27	0.86	4.41	79.4	0.67	2.39	4.16	5.05	0.80
0.95	9.30	1.92	150.29	1.39	3.72			0.48	3.70	2.99	8.18	1.29	3.03	80.7	0.47	3.64	2.87	7.87	1.28
2.96	6.99	5.41	146.89	2.33	4.26			0.44	4.95	1.95	10.54	1.70	2.00	77.1	0.44	4.95	1.90	10.24	1.69
6.74	6.11	7.25	111.66	2.69	4.48	1.42	0.001	0.43	4.62	3.28	10.17	1.60	3.31	82.3	0.46	4.88	3.21	9.95	1.63
7.65	4.27	7.73	97.93	2.78	4.30	3.79	1.088	0.75	4.27	4.61	8.31	1.36	4.67	80.5	0.72	4.11	4.65	8.39	1.36
1.38	6.81	1.42	76.03	1.19	4.42			0.77	3.13	6.57	7.18	1.09	6.61	83.1	0.74	3.04	6.33	6.92	1.05
-2.11	14.70	2.15	-100.93	1.47	4.38			1.15	2.82	8.03	5.60	0.88	8.12	81.6	1.07	2.63	7.74	5.39	0.85

STABLE, Deployment 1, Holderness, UK

1.58	13.76	1.58	87.39	1.26	4.34			1.14	3.46	7.00	6.27	1.02	7.09	80.5	1.10	3.34	6.71	6.01	1.00
-1.80	25.85	2.25	-53.07	1.50	4.69	1.79	0.010	1.03	5.26	4.63	9.11	1.53	4.75	77.3	0.95	4.86	4.39	8.63	1.45
-2.22	19.64	2.94	-49.04	1.72	4.24	2.77	0.086	0.63	5.99	2.50	9.39	1.65	2.58	75.6	0.60	5.64	2.38	8.93	1.59
-3.57	22.02	3.80	-69.91	1.95	4.47	1.86	0.011	0.86	5.55	3.00	9.89	1.64	3.12	73.8	0.83	5.35	2.86	9.43	1.59
-0.44	18.10	1.66	-15.36	1.29	4.12	3.20	0.814	1.11	5.00	4.01	7.78	1.35	4.16	74.3	1.03	4.66	3.84	7.44	1.29
2.30	25.79	2.53	65.31	1.59	4.84			1.11	3.47	7.34	7.65	1.13	7.43	81.2	1.03	3.22	7.07	7.37	1.09
-1.00	19.31	1.04	-104.65	1.02	4.98			0.62	3.14	7.71	7.94	1.18	7.74	85.2	0.55	2.79	7.37	7.59	1.10
7.69	21.78	7.90	103.21	2.81	4.94	0.41		0.58	4.55	5.11	9.92	1.58	5.14	83.3	0.59	4.60	5.07	9.83	1.58
6.02	17.66	6.97	120.23	2.64	4.96	1.38		0.69	4.87	4.46	10.48	1.67	4.51	81.0	0.70	4.94	4.39	10.32	1.68
9.80	24.45	9.85	96.26	3.14	5.83	3.47	0.601	0.83	5.33	7.15	10.61	1.71	7.20	83.1	0.75	4.82	7.25	10.76	1.69
4.74	2.18	4.75	93.23	2.18	4.78	1.92	0.232	0.79	3.56	6.09	8.71	1.31	6.14	82.4	0.82	3.71	6.03	8.62	1.32
-1.01	13.37	1.09	-111.77	1.04	4.79			0.88	3.09	7.48	7.49	1.12	7.53	83.0	0.85	2.97	7.12	7.13	1.06
1.33	23.20	1.34	82.15	1.16	4.45			1.17	3.20	6.99	6.74	1.05	7.09	80.3	1.07	2.95	6.72	6.47	0.99
-1.13	23.91	1.59	-45.34	1.26	4.12	1.34	0.002	0.74	4.60	3.63	8.52	1.40	3.70	78.3	0.70	4.40	3.43	8.05	1.34
-3.93	24.86	4.03	-77.07	2.01	4.34	2.98	0.170	0.68	5.25	2.55	10.05	1.64	2.64	74.8	0.66	5.04	2.45	9.68	1.60
-3.77	6.06	4.05	-68.46	2.01	3.81	3.31	0.308	0.70	5.38	2.49	8.13	1.46	2.59	74.0	0.67	5.15	2.38	7.79	1.40
-0.29	17.77	2.25	-7.53	1.50	3.97			0.86	4.25	4.10	7.66	1.25	4.19	78.0	0.83	4.14	3.95	7.39	1.23
1.34	11.74	1.37	77.60	1.17	3.36			0.97	2.77	3.51	6.72	0.97	3.64	74.4	0.89	2.55	3.39	6.50	0.92
0.91	12.35	1.11	125.36	1.05	3.94			0.54	3.07	5.04	7.15	1.09	5.07	83.6	0.49	2.80	4.81	6.83	1.04
4.24	14.29	5.34	127.46	2.31	4.33	0.28		0.45	4.49	3.82	9.15	1.50	3.85	83.0	0.46	4.56	3.82	9.14	1.51
3.79	16.28	4.93	129.74	2.22	4.40	0.85		0.52	4.77	3.23	9.80	1.61	3.27	80.7	0.54	4.97	3.02	9.17	1.59
7.00	10.53	7.26	105.28	2.69	4.54	2.10	0.016	0.54	4.85	4.08	9.46	1.56	4.12	82.2	0.55	4.95	4.04	9.37	1.58
7.07	-1.09	7.10	95.25	2.66	4.57	1.00		0.61	3.95	5.47	8.53	1.34	5.50	83.4	0.64	4.17	5.63	8.79	1.39
0.49	11.18	0.54	113.04	0.73	4.05			1.07	2.99	6.30	6.14	0.98	6.39	80.2	1.02	2.87	6.03	5.88	0.92
1.29	9.29	1.29	88.68	1.14	3.62			0.90	2.63	5.73	5.41	0.87	5.80	80.9	0.78	2.30	5.53	5.21	0.80
-1.54	19.76	1.68	-66.70	1.30	3.63	0.13		0.74	4.19	3.70	6.90	1.20	3.77	78.6	0.70	3.96	3.52	6.56	1.14
-2.30	13.53	3.68	-38.78	1.92	3.88	0.65		0.78	6.06	2.08	8.31	1.55	2.22	69.2	0.74	5.77	2.03	8.12	1.51
-4.98	10.37	5.93	-57.22	2.43	4.00	2.47	0.033	0.46	6.24	1.41	9.48	1.70	1.48	71.7	0.45	6.05	1.38	9.29	1.68
-2.67	19.31	3.23	-55.75	1.80	3.85	1.80	0.006	0.57	5.26	2.41	8.50	1.47	2.48	76.5	0.57	5.23	2.33	8.20	1.46
0.10	22.66	0.98	5.98	0.99	3.64	2.80	0.889	1.04	4.19	3.70	6.83	1.16	3.84	74.1	0.93	3.73	3.44	6.35	1.07
2.11	18.73	2.15	79.65	1.46	3.88			0.79	2.77	6.18	5.88	0.87	6.23	82.5	0.69	2.41	5.83	5.54	0.81
4.43	8.73	4.66	107.83	2.16	3.99			0.39	3.43	4.07	8.18	1.25	4.09	84.3	0.37	3.24	3.91	7.85	1.21
2.29	7.01	3.99	144.92	2.00	3.98	1.17		0.30	4.45	2.66	9.15	1.50	2.67	83.4	0.32	4.77	2.52	8.67	1.51
5.05	2.35	6.59	130.03	2.57	4.09			0.40	4.77	3.07	8.95	1.51	3.10	82.4	0.42	4.96	3.00	8.73	1.54
7.14	2.11	7.24	99.87	2.69	3.91	2.27	0.070												
3.72	3.49	3.74	95.33	1.93	3.66	1.79	0.349	0.55	3.38	4.27	6.88	1.10	4.30	82.5	0.53	3.29	4.29	6.92	1.09

STABLE, Deployment 1, Holderness, UK

1.54	21.62	1.58	76.44	1.26	3.59			0.74	2.63	5.72	5.40	0.84	5.77	82.4	0.71	2.52	5.49	5.18	0.82
-0.61	16.44	0.76	-54.44	0.87	3.56			0.67	3.72	3.90	6.70	1.11	3.95	80.0	0.62	3.45	3.66	6.30	1.05
-3.31	15.48	3.57	-67.80	1.89	3.99			0.52	5.91	2.89	8.20	1.51	2.93	79.5	0.49	5.47	2.71	7.69	1.43
-2.70	11.33	3.16	-59.00	1.78	3.54	2.73	0.086	0.48	5.40	2.01	7.69	1.42	2.07	76.4	0.47	5.32	1.91	7.29	1.38
-0.46	15.70	1.26	-21.32	1.12	3.50	2.00	0.033	0.52	4.94	2.47	7.36	1.32	2.52	78.0	0.48	4.58	2.25	6.71	1.23
0.14	20.45	1.09	7.20	1.04	3.73	2.77	1.394	0.77	3.79	4.97	6.18	1.04	5.03	81.0	0.70	3.41	4.76	5.92	0.99
0.98	23.49	1.10	63.12	1.05	4.14			0.65	3.11	6.63	6.25	0.96	6.66	84.2	0.58	2.79	6.29	5.93	0.90
5.01	16.58	5.35	110.33	2.31	4.10														
0.97	8.76	6.39	171.33	2.53	4.76			0.30	6.13	2.89	10.89	1.87	2.91	83.9	0.29	5.84	2.78	10.45	1.81
2.45	7.01	4.58	147.66	2.14	5.06	0.48													
4.79	0.10	5.42	118.03	2.33	4.68			0.06	6.40	3.18	10.39	1.81	3.18	88.7	0.06	6.52	3.14	10.27	1.81
4.21	6.47	4.26	98.92	2.07	3.95	5.40	3.998	1.27	4.90	3.96	7.13	1.30	4.16	72.1	1.09	4.20	3.83	6.89	1.20
1.57	18.86	1.88	123.71	1.37	4.19														
-1.18	22.04	1.56	-48.97	1.25	4.08			2.43	4.23	4.91	6.44	1.14	5.48	63.5	2.32	4.04	4.62	6.05	1.06
-2.48	17.99	2.95	-57.21	1.72	3.82	0.20		1.68	5.45	2.24	7.76	1.42	2.80	53.0	1.61	5.22	2.13	7.38	1.36
-5.17	-0.91	6.58	-51.85	2.57	4.20	0.35		1.83	7.11	1.62	8.45	1.68	2.45	41.5	1.74	6.78	1.58	8.22	1.63
-3.31	-8.09	4.06	-54.70	2.02	4.00	2.49	0.063	2.16	6.96	1.91	7.10	1.52	2.89	41.4	2.11	6.79	1.88	7.00	1.50
-1.46	-6.52	3.74	-22.92	1.93	4.01	2.53	0.240	3.28	6.58	2.28	6.06	1.35	3.99	34.7	3.13	6.29	2.12	5.63	1.28
-0.19	-5.57	3.06	-3.58	1.75	4.27			4.80	4.95	4.46	5.33	1.06	6.55	42.8	4.65	4.80	4.29	5.13	1.03
2.36	-1.56	3.89	142.65	1.97	4.29			4.28	5.56	3.17	6.57	1.28	5.32	36.5	4.05	5.26	2.97	6.15	1.20
6.71	-21.84	12.06	146.22	3.47	4.94	0.05		3.77	8.15	2.45	7.99	1.75	4.50	32.9	3.80	8.21	2.35	7.67	1.75
5.52	-21.73	8.18	137.58	2.86	5.06	0.97		3.27	9.20	1.28	9.06	2.00	3.51	21.3	3.34	9.40	1.23	8.70	2.00
7.43	-8.92	12.62	143.96	3.55	4.83	1.68		3.25	8.63	1.52	8.38	1.86	3.59	25.1	3.34	8.87	1.49	8.19	1.90
5.08	22.94	6.14	124.14	2.48	4.79	5.17	1.649	4.89	7.71	2.20	6.69	1.54	5.37	24.2	4.80	7.56	2.04	6.18	1.49
1.96	33.90	2.84	136.17	1.68	4.99			7.02	6.08	3.94	5.53	1.20	8.05	29.2	6.82	5.90	3.81	5.34	1.17
-0.31	26.60	4.35	-4.14	2.09	4.68			6.34	6.38	2.93	5.29	1.23	6.98	24.8	6.07	6.12	2.77	5.00	1.16
-1.84	22.43	5.46	-19.73	2.34	4.80	0.87		5.05	8.03	1.74	6.53	1.54	5.34	19.0	4.87	7.75	1.64	6.16	1.49
-3.82	18.92	3.83	-95.70	1.96	5.09	0.34		4.33	9.57	1.44	7.24	1.80	4.56	18.3	4.21	9.30	1.42	7.13	1.78
-3.33	6.58	4.79	-44.12	2.19	5.02	3.23	0.152	4.65	9.05	1.37	7.24	1.72	4.85	16.4	4.49	8.72	1.28	6.75	1.67
-2.15	18.66	5.44	-23.25	2.33	4.93	1.89	0.032	5.40	8.54	1.74	5.91	1.52	5.67	17.8	5.18	8.19	1.64	5.58	1.48
0.95	21.57	4.61	11.89	2.15	4.47			6.37	5.67	3.19	4.86	1.09	7.12	26.5	6.14	5.47	2.98	4.55	1.04
0.98	22.18	2.08	152.12	1.44	4.37			5.53	6.14	2.63	5.34	1.20	6.13	25.4	5.30	5.88	2.53	5.14	1.14
2.97	5.58	8.37	159.28	2.89	4.67			4.06	8.10	1.52	7.21	1.66	4.34	20.5	4.05	8.08	1.37	6.51	1.60
8.12	-8.77	13.44	142.87	3.67	4.88			3.28	8.61	1.42	8.65	1.90	3.58	23.4	3.26	8.54	1.36	8.27	1.86
6.39	9.25	7.67	123.58	2.77	4.53	0.70		3.46	7.91	1.41	7.61	1.68	3.74	22.2	3.45	7.89	1.35	7.27	1.67
2.84	28.04	4.18	137.23	2.04	4.31			4.40	6.53	2.13	6.43	1.39	4.89	25.8	4.33	6.43	2.05	6.18	1.37

STABLE, Deployment 1, Holderness, UK

2.52	63.37	2.61	75.13	1.61	4.89	2.16	0.726	6.04	6.51	3.35	6.30	1.32	6.91	28.9	5.72	6.16	3.26	6.13	1.29
1.75	47.07	6.07	16.79	2.46	4.51			6.90	5.23	3.40	4.72	1.04	7.70	26.2	6.63	5.02	3.27	4.53	1.00
-0.72	40.90	4.51	-9.19	2.12	4.65			5.16	7.33	2.05	6.25	1.44	5.55	21.6	4.95	7.02	1.88	5.73	1.35
-3.67	26.93	3.99	-66.84	2.00	5.01	1.41		4.65	9.02	1.36	7.19	1.72	4.85	16.2	4.46	8.64	1.29	6.84	1.67
-3.53	25.40	5.04	-44.45	2.25	5.11	1.30													
-1.90	14.24	3.94	-28.84	1.98	4.55	1.67	0.003	4.38	8.35	1.23	6.07	1.53	4.55	15.6	4.24	8.08	1.15	5.67	1.49
-0.85	14.99	5.73	-8.52	2.39	4.43	2.05	0.202	5.92	6.63	2.08	4.79	1.21	6.27	19.3	5.63	6.31	1.95	4.50	1.16
1.06	33.16	1.06	96.37	1.03	4.28			6.06	5.45	2.94	4.77	1.07	6.73	25.8	5.80	5.21	2.76	4.47	0.99
3.44	19.14	4.49	129.90	2.12	4.31			4.58	6.51	2.25	6.09	1.36	5.10	26.1	4.54	6.45	2.25	6.09	1.36
8.70	14.77	13.91	141.30	3.73	5.25			3.70	9.52	1.55	8.83	2.01	4.01	22.6	3.56	9.15	1.43	8.17	1.93
6.08	30.50	10.18	143.35	3.19	5.36			3.71	9.13	2.06	9.33	2.02	4.24	29.0	3.66	9.02	1.90	8.63	1.94
8.14	31.72	9.40	120.06	3.07	4.84	3.02	0.118	3.76	7.79	2.08	8.29	1.74	4.30	28.8	3.73	7.71	2.03	8.09	1.74
3.02	97.55	3.50	59.71	1.87	5.49	4.46	3.472	6.23	7.19	4.08	7.54	1.54	7.45	33.2	5.82	6.72	3.95	7.30	1.46
4.18	127.22	8.28	30.36	2.88	5.92			9.09	6.55	5.22	5.89	1.29	10.48	29.8	8.72	6.28	4.91	5.54	1.23
-0.53	65.20	4.55	-6.62	2.13	4.79			5.17	7.72	2.09	6.43	1.49	5.57	22.0	4.93	7.36	1.96	6.03	1.42
-2.93	53.66	3.48	-57.49	1.86	5.00	0.74		4.45	8.99	1.10	7.72	1.79	4.59	13.9	4.35	8.77	1.04	7.26	1.72
-4.07	39.25	4.07	-90.49	2.02	4.65	1.32		3.61	8.72	0.98	7.42	1.74	3.74	15.1	3.53	8.52	0.92	6.98	1.68
-3.66	45.83	4.38	-56.57	2.09	5.02	1.35		4.88	8.83	1.07	7.47	1.74	5.00	12.3	4.74	8.58	1.00	6.99	1.68
-0.74	47.08	4.72	-9.06	2.17	4.49	1.34	0.009	5.65	6.43	1.95	6.09	1.31	5.97	19.0	5.44	6.19	1.86	5.82	1.27
2.63	67.46	5.13	30.85	2.26	4.53			6.40	5.21	3.96	5.00	1.05	7.52	31.6	6.09	4.96	3.70	4.68	1.00
3.13	89.28	3.62	59.88	1.90	5.14			5.43	6.96	3.15	7.91	1.56	6.27	30.1	5.45	6.99	3.19	8.02	1.56
6.16	78.51	6.78	114.80	2.60	5.47	1.30		3.83	9.09	2.24	9.68	2.01	4.43	30.2	3.68	8.74	2.14	9.28	1.95
6.39	44.10	8.05	127.46	2.84	5.15	2.22	0.003	3.23	8.56	2.03	9.50	1.96	3.81	32.0	3.14	8.32	1.94	9.09	1.92
4.70	68.04	5.73	124.99	2.39	5.40			4.03	8.33	2.66	9.51	1.93	4.83	33.4	3.88	8.02	2.44	8.71	1.83
3.90	115.57	4.39	62.70	2.09	5.72	3.25	1.181	6.05	7.71	4.15	8.21	1.64	7.33	34.4	5.81	7.41	4.13	8.16	1.62
1.31	164.17	1.74	49.11	1.32	6.48	1.06	0.018	8.77	7.82	5.48	7.38	1.55	10.34	31.9	8.46	7.55	5.15	6.94	1.49
2.05	93.59	5.77	20.78	2.40	5.18			6.86	6.79	3.61	6.09	1.34	7.76	27.7	6.69	6.62	3.45	5.81	1.29
-1.61	72.72	2.83	-34.67	1.68	5.13	0.77		5.47	8.50	1.79	7.07	1.65	5.76	18.1	5.28	8.21	1.70	6.73	1.60
-4.87	44.56	5.38	-64.96	2.32	5.10	2.41	0.015	4.09	9.64	1.41	7.59	1.83	4.32	18.9	3.91	9.23	1.30	7.04	1.75
-4.64	27.91	5.08	-65.85	2.25	4.48	1.78	0.003	3.50	8.46	1.31	6.74	1.63	3.74	20.4	3.40	8.23	1.26	6.51	1.60
-1.26	39.22	4.01	-18.30	2.00	4.27	0.37		4.47	7.00	1.77	5.84	1.37	4.81	21.6	4.28	6.69	1.67	5.52	1.32
1.88	53.71	5.64	19.50	2.37	4.35	1.03	0.027	5.89	5.69	3.15	4.87	1.08	6.68	28.1	5.65	5.46	2.95	4.56	1.04
0.42	75.55	0.76	147.02	0.87	4.64			5.79	6.21	3.23	5.77	1.25	6.63	29.1	5.48	5.88	3.04	5.44	1.18
3.02	77.23	3.68	124.86	1.92	5.12			4.54	7.89	2.46	8.37	1.72	5.16	28.4	4.41	7.67	2.37	8.09	1.70
6.53	56.33	7.33	116.97	2.71	5.15	1.67		3.70	9.20	1.72	8.62	1.92	4.08	24.8	3.56	8.86	1.63	8.17	1.87
6.45	74.36	6.62	103.13	2.57	5.39	4.02	0.387	4.14	9.14	2.53	8.60	1.90	4.85	31.3	4.04	8.91	2.40	8.17	1.85

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5.93	93.55	6.02	80.03	2.45	5.28	2.38	0.215	3.93	7.69	4.08	8.41	1.68	5.66	46.0	3.87	7.58	4.07	8.38	1.68
1.04	95.08	1.28	54.41	1.13	5.13			6.21	6.28	4.54	6.42	1.31	7.69	36.1	6.04	6.11	4.31	6.09	1.26
1.53	81.33	3.41	26.67	1.85	4.63			5.67	5.76	4.06	5.62	1.19	6.98	35.5	5.54	5.62	3.93	5.45	1.15
-2.01	62.01	2.74	-47.06	1.66	4.63	0.30		4.16	7.60	1.94	7.27	1.57	4.59	24.9	4.04	7.39	1.82	6.84	1.53
-5.44	35.52	5.68	-73.29	2.38	4.67	2.57	0.018	2.96	9.06	1.10	7.87	1.81	3.16	20.3	2.86	8.73	1.05	7.54	1.76
-4.41	25.08	5.17	-58.49	2.27	4.32	2.03	0.004	2.84	8.32	0.80	7.44	1.69	2.96	15.7	2.73	7.98	0.77	7.10	1.64
-1.76	26.46	2.35	-48.61	1.53	3.82	0.92		3.07	6.93	1.27	5.83	1.38	3.32	22.5	2.97	6.73	1.19	5.46	1.33
0.99	47.64	3.73	15.35	1.93	16.04	0.83	0.003	4.51	5.43	2.99	5.31	1.12	5.41	33.4	4.31	5.19	2.81	5.00	1.08
0.16	59.24	0.37	25.31	0.60	17.90			4.39	5.63	3.32	5.98	1.23	5.50	37.0	4.16	5.33	3.09	5.57	1.13
2.70	44.08	3.78	134.57	1.94	16.14	0.62		3.06	6.34	1.88	6.95	1.44	3.59	31.6	3.02	6.27	1.81	6.69	1.41
4.87	9.32	10.47	152.32	3.24	18.68	0.17		2.34	7.60	1.42	8.09	1.75	2.73	31.2	2.33	7.58	1.32	7.55	1.70
8.59	20.62	10.24	122.98	3.20	18.24	3.83	0.214	2.20	7.50	1.65	7.93	1.70	2.75	36.8	2.23	7.62	1.59	7.63	1.71
4.07	26.96	4.16	102.15	2.04	14.04	3.29	0.425	2.27	6.39	1.92	6.38	1.40	2.97	40.2	2.18	6.14	1.84	6.11	1.35
1.85	63.53	2.36	51.75	1.54	18.51	1.85	0.393	3.88	6.07	2.73	6.98	1.36	4.74	35.1	3.65	5.71	2.69	6.88	1.31
1.52	42.17	2.82	32.50	1.68	12.86			4.07	4.86	2.56	4.79	1.03	4.81	32.1	3.75	4.48	2.32	4.35	0.92
-0.56	30.45	2.69	-12.01	1.64	12.61	0.00		2.91	6.41	1.14	5.44	1.28	3.12	21.3	2.75	6.07	1.05	5.03	1.20
-4.38	9.42	5.22	-57.17	2.28	12.32	0.67		1.93	7.05	0.62	6.11	1.44	2.02	17.8	1.87	6.85	0.59	5.76	1.39
-3.94	7.83	4.48	-61.57	2.12	12.72	2.12	0.011	1.82	7.24	0.60	6.32	1.48	1.91	18.2	1.75	6.98	0.55	5.84	1.41
-2.06	5.96	2.97	-43.96	1.72	10.51	2.15	0.027	1.78	6.65	0.46	5.55	1.33	1.84	14.5	1.71	6.36	0.46	5.51	1.29
-0.78	9.33	1.72	-26.83	1.31	6.31	2.82	1.108	1.81	4.68	0.76	4.03	0.94	1.96	22.7	1.67	4.31	0.70	3.70	0.88
0.83	21.52	2.00	24.59	1.41	7.68			3.45	3.95	1.65	3.39	0.78	3.83	25.5	3.20	3.66	1.45	2.96	0.69
1.29	18.64	2.28	145.55	1.51	8.13			1.88	4.83	1.35	4.89	1.04	2.31	35.7	1.82	4.68	1.30	4.68	1.02
5.06	13.27	9.50	147.83	3.08	14.27			1.99	6.92	0.79	7.25	1.57	2.14	21.7	2.00	6.97	0.72	6.55	1.53
5.50	11.42	7.43	132.25	2.73	15.74	2.88	0.027	1.92	7.06	0.91	7.92	1.67	2.13	25.3	1.98	7.28	0.82	7.13	1.63
5.31	15.04	5.65	109.96	2.38	12.17	0.85		1.89	6.15	1.20	6.48	1.40	2.24	32.4	1.90	6.18	1.14	6.15	1.39
1.43	16.79	1.92	132.08	1.39	8.88	2.76	1.308	2.46	4.71	1.23	5.13	1.05	2.75	26.5	2.35	4.50	1.20	5.00	1.01
0.71	24.61	1.88	22.42	1.37	7.24			3.09	3.91	1.54	3.62	0.79	3.45	26.5	2.96	3.75	1.47	3.45	0.76
-0.18	16.58	2.27	-4.60	1.51	7.04			1.96	4.70	0.75	4.52	1.01	2.10	21.0	1.92	4.62	0.69	4.12	0.95
-3.15	6.44	3.52	-63.27	1.88	9.02	0.71		1.26	6.30	0.31	5.58	1.30	1.30	14.0	1.21	6.05	0.30	5.25	1.24
-4.86	-0.74	5.10	-72.59	2.26	10.53	1.91	0.003	1.14	7.03	0.31	6.04	1.42	1.18	15.0	1.07	6.58	0.30	5.81	1.37
-3.96	-5.48	4.71	-57.29	2.17	7.98	1.53	0.002	1.01	5.79	0.27	5.62	1.25	1.04	15.0	0.98	5.63	0.27	5.67	1.24
-0.89	1.02	1.97	-26.89	1.41	5.94	2.02	0.204	1.57	4.71	0.44	4.17	0.97	1.63	15.6	1.44	4.32	0.41	3.91	0.91
0.54	7.48	1.14	28.15	1.07	3.99			1.92	3.23	0.74	3.13	0.67	2.06	21.0	1.78	3.00	0.65	2.76	0.61
0.74	2.18	1.33	146.42	1.15	3.34			0.99	3.25	0.37	3.60	0.76	1.06	20.6	0.95	3.11	0.36	3.46	0.73
4.32	-6.13	6.35	137.17	2.52	9.13			1.13	5.12	0.61	6.61	1.32	1.29	28.2	1.15	5.19	0.54	5.87	1.26
4.92	-7.50	6.47	130.46	2.54	10.55	1.04		1.26	5.55	0.71	6.99	1.41	1.44	29.4	1.29	5.70	0.67	6.66	1.40

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4.45	3.94	5.14	119.93	2.27	9.17	3.05	0.151	1.17	4.97	0.62	6.77	1.31	1.32	27.9	1.14	4.85	0.58	6.33	1.26
1.53	4.71	1.61	108.04	1.27	5.22	0.93	0.001	1.47	3.70	1.09	4.07	0.86	1.83	36.3	1.44	3.62	1.04	3.91	0.85
-0.44	9.60	0.60	-131.98	0.77	6.31			1.97	3.75	1.53	4.19	0.85	2.50	37.7	1.71	3.25	1.26	3.44	0.72
-0.86	7.49	1.55	-33.89	1.25	5.19			1.40	3.93	0.69	4.30	0.89	1.56	26.1	1.31	3.67	0.60	3.76	0.82
-3.09	-4.93	3.86	-53.20	1.96	7.94			0.99	5.71	0.32	5.67	1.24	1.05	18.0	0.93	5.31	0.31	5.38	1.19
-3.82	-2.73	4.32	-62.31	2.08	8.74	0.70		0.77	6.19	0.18	6.08	1.37	0.79	12.8	0.74	5.97	0.17	5.82	1.33
-2.85	-2.58	3.84	-47.82	1.96	7.25	2.38	0.020	0.54	5.96	0.30	5.21	1.25	0.61	28.8	0.53	5.91	0.28	4.98	1.22
-2.60	-7.73	3.40	-49.83	1.84	5.80	3.34	0.794	0.99	4.78	0.34	4.71	1.04	1.05	19.0	0.92	4.41	0.32	4.42	0.99
-0.77	-0.94	1.44	-32.43	1.20	3.19			1.12	3.41	0.50	2.96	0.70	1.23	23.7	1.03	3.12	0.45	2.68	0.65
0.57	-1.34	0.94	143.01	0.97	3.31			0.44	4.24	0.01	3.40	0.83	0.44	1.3	0.39	3.73	0.01	2.78	0.70
3.28	-11.00	4.63	134.88	2.15	6.73			1.06	4.56	0.43	5.53	1.14	1.14	22.0	1.07	4.58	0.37	4.78	1.06
6.20	-17.65	7.81	127.47	2.80	9.37	2.54	0.025	0.81	5.39	0.49	6.85	1.40	0.95	31.1	0.85	5.67	0.45	6.30	1.36
4.95	-11.20	6.00	124.41	2.45	8.25			0.92	5.14	0.39	6.35	1.30	1.00	22.9	0.86	4.82	0.37	6.01	1.24
4.13	-7.38	4.57	115.16	2.14	5.94	2.31	0.136	0.90	3.74	0.50	5.63	1.06	1.03	28.9	0.93	3.82	0.51	5.73	1.07
0.13	-2.99	0.43	163.29	0.66	2.94			1.23	2.85	0.55	3.07	0.67	1.34	23.9	1.20	2.78	0.52	2.92	0.62
-0.25	-0.44	0.60	-24.44	0.77	2.33			0.90	2.84	0.34	2.69	0.64	0.96	20.8	0.85	2.70	0.31	2.48	0.58
-1.56	-5.67	1.75	-63.43	1.32	4.84			0.80	4.46	0.25	4.30	0.98	0.84	17.4	0.76	4.20	0.24	4.16	0.93
-4.83	-11.32	5.66	-58.50	2.38	7.69			0.59	5.99	0.06	5.73	1.30	0.60	5.9	0.56	5.67	0.06	5.76	1.29
-4.22	-13.82	4.92	-59.04	2.22	7.29	0.29		0.55	5.85	0.19	5.49	1.26	0.58	18.9	0.54	5.76	0.19	5.44	1.24
-2.55	-9.79	2.94	-60.07	1.72	5.57	2.75	0.187	0.57	5.13	0.21	4.66	1.08	0.61	19.7	0.50	4.54	0.19	4.35	0.99
-0.70	-4.85	0.92	-50.35	0.96	3.22	3.11	3.145	0.05	4.28	0.09	3.63	0.86	0.10	63.4	-0.04	3.82	0.07	2.89	0.73
-0.10	-2.03	0.36	-15.89	0.60	1.97			0.98	2.41	0.63	2.26	0.53	1.16	32.8	0.77	1.91	0.47	1.69	0.39
1.22	-4.84	1.61	130.73	1.27	3.20			0.70	2.98	0.36	3.87	0.79	0.78	27.2	0.65	2.77	0.32	3.48	0.72
3.81	-5.80	4.28	117.12	2.07	5.52	0.48		0.44	4.19	0.22	5.43	1.12	0.49	26.5	0.44	4.22	0.21	5.11	1.09
5.36	-9.31	6.15	119.47	2.48	6.09	0.47		0.40	4.33	0.06	6.04	1.18	0.40	8.6	0.40	4.35	0.06	5.72	1.16
2.78	-7.45	3.34	123.50	1.83	3.91	1.73	0.040	0.52	3.67	0.20	4.39	0.91	0.55	21.1	0.49	3.48	0.20	4.39	0.90
0.19	-1.26	0.58	160.74	0.76	1.35			0.30	2.23	0.13	2.50	0.54	0.33	23.6	0.31	2.28	0.12	2.32	0.52
0.07	0.61	0.17	155.43	0.41	1.08			0.27	2.08	0.08	2.16	0.49	0.28	16.8	0.23	1.78	0.07	1.86	0.43
-1.77	-1.82	1.87	-71.01	1.37	2.49			0.09	3.25	0.10	3.50	0.78	0.13	50.0	0.08	3.19	0.10	3.35	0.75
-3.37	-9.55	3.93	-58.91	1.98	5.89	0.78		0.20	5.23	0.06	5.35	1.18	0.20	16.0	0.19	4.98	-0.06	5.30	1.16
-3.91	-6.89	4.52	-59.77	2.13	6.83			0.19	5.50	0.01	5.96	1.28	0.19	2.8	0.17	4.94	0.01	6.02	1.24
-2.13	-4.39	2.65	-53.48	1.63	4.61	1.24	0.001	0.22	4.64	0.01	4.72	1.04	0.22	2.1	0.21	4.33	0.01	4.61	1.01
-0.62	-1.64	0.78	-52.58	0.88	1.43	1.16	0.060	0.16	2.50	0.04	2.55	0.59	0.17	12.3	0.13	2.05	0.04	2.62	0.54
-0.09	-0.86	0.46	-10.70	0.68	0.85			0.25	1.80	0.13	1.94	0.42	0.29	26.9	0.21	1.46	0.11	1.69	0.37
1.16	-3.56	1.50	129.21	1.22	2.30			0.11	2.93	0.09	3.58	0.74	0.14	36.9	0.10	2.49	0.07	2.79	0.61
3.21	-6.92	3.68	119.51	1.92	4.33	0.77		0.16	3.67	0.13	5.09	1.01	0.21	37.8	0.16	3.55	0.11	4.37	0.94

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3.86	-10.35	4.88	127.75	2.21	5.87	3.77	0.411	0.05	4.82	0.10	5.73	1.19	0.11	62.7	-0.05	4.80	0.09	5.23	1.16
2.68	-3.58	3.45	129.17	1.86	3.93	2.69	0.188	0.03	3.92	0.19	4.52	0.98	0.20	80.0	-0.03	3.96	0.18	4.19	0.95
0.91	-1.86	1.03	118.03	1.01	1.55	1.73	0.272	0.09	2.12	0.18	3.02	0.60	0.20	62.7	0.08	1.90	0.17	2.80	0.55
-0.03	0.27	0.16	-169.13	0.40	0.80			0.13	1.57	0.35	1.85	0.40	0.37	69.9	0.11	1.37	0.34	1.77	0.37
-0.96	0.30	0.96	-89.80	0.98	1.54			0.02	2.10	0.25	2.97	0.59	0.25	85.0	0.02	1.88	0.23	2.73	0.54
-1.88	-2.54	2.02	-68.28	1.42	3.86	0.94		0.05	3.84	0.18	4.60	0.96	0.18	75.0	0.05	3.79	0.17	4.43	0.93
-2.82	-2.53	3.19	-62.17	1.79	5.22	1.61	0.002	0.06	4.72	0.05	5.31	1.13	0.08	38.7	0.06	4.29	0.05	5.03	1.05
-3.48	-5.82	4.26	-54.79	2.06	6.27	1.87	0.007	0.05	5.57	0.07	5.45	1.24	0.08	51.3	0.05	5.13	-0.07	5.58	1.19
-1.38	-4.62	2.15	-39.84	1.47	2.90	1.18	0.003	0.06	3.96	0.12	3.39	0.84	0.14	62.3	0.06	3.72	0.13	3.46	0.82
-0.26	0.32	0.38	-43.10	0.62	1.38			0.09	2.39	0.25	2.45	0.56	0.27	69.4	0.06	1.63	0.20	1.95	0.42
0.23	-0.88	0.24	108.49	0.49	1.37			0.03	2.03	0.28	2.74	0.55	0.28	82.8	0.02	1.34	0.21	2.04	0.40
2.94	-6.39	3.35	118.49	1.83	4.15			0.01	3.79	0.09	5.00	1.01	0.09	94.9	-0.01	3.20	0.08	4.43	0.89
5.00	-6.20	5.41	112.46	2.33	6.01	2.23	0.013	0.04	4.58	0.22	5.81	1.21	0.22	78.6	0.04	4.14	0.20	5.47	1.13
3.80	-9.67	4.64	125.18	2.15	5.50	4.17	0.926	0.03	4.67	0.24	5.35	1.16	0.24	81.9	-0.03	4.47	0.23	5.05	1.11
2.26	-3.71	2.63	120.85	1.62	2.48	2.05	0.308	0.04	2.66	0.41	3.67	0.74	0.42	84.3	0.04	2.61	0.41	3.64	0.73
0.63	-1.38	0.64	97.80	0.80	1.89			0.07	2.50	0.54	2.96	0.61	0.55	82.3	0.05	1.59	0.50	2.74	0.48
-0.74	0.39	0.75	-82.66	0.86	1.00			0.04	1.64	0.23	2.34	0.48	0.23	79.8	0.03	1.32	0.20	2.10	0.42
-2.18	-3.06	2.31	-71.10	1.52	3.14			0.07	3.53	0.08	4.13	0.88	0.10	50.6	-0.06	3.61	0.08	4.15	0.88
-2.75	-8.49	2.90	-71.48	1.70	4.98	1.25		0.06	4.91	0.03	4.94	1.10	0.07	31.3	0.05	4.77	0.04	5.17	1.10
-2.70	-6.67	3.17	-58.44	1.78	4.18	1.06		0.06	4.38	0.09	4.53	1.01	0.11	54.6	0.06	4.26	0.09	4.81	1.02
-1.26	-3.54	1.32	-72.64	1.15	2.36	1.17	0.009	0.00	3.46	0.09	3.23	0.77	0.09	87.5	0.00	3.15	0.09	3.14	0.72
-0.52	-0.28	0.61	-59.36	0.78	1.19			0.06	2.19	0.20	2.35	0.53	0.21	72.8	0.05	1.68	0.16	1.88	0.42
0.03	-0.14	0.06	145.04	0.24	1.35			0.01	2.37	0.03	2.76	0.57	0.03	70.2	0.00	1.14	-0.02	1.67	0.33
1.48	-2.91	1.69	118.62	1.30	3.24			0.05	3.32	0.10	4.43	0.88	0.11	64.3	0.04	2.54	0.08	3.74	0.72
4.24	-6.81	4.48	108.73	2.12	5.90	2.98	0.189	0.01	3.63	0.16	6.53	1.16	0.16	85.6	0.01	3.43	0.14	5.91	1.08
3.05	-12.72	4.29	134.63	2.07	6.63			0.03	5.00	0.22	6.12	1.25	0.22	81.5	-0.03	4.67	0.20	5.39	1.16
1.94	-6.27	2.21	118.53	1.49	4.29	4.57	3.237	0.03	3.98	0.02	5.16	1.01	0.03	36.7	-0.02	3.15	-0.02	4.44	0.86
1.44	-3.53	1.50	105.76	1.23	1.95	3.15	3.706	0.03	2.57	0.29	3.25	0.66	0.29	84.3	0.02	2.22	0.27	2.99	0.59
-0.08	0.18	0.10	-126.34	0.32	0.80			0.04	1.84	0.23	1.86	0.42	0.23	79.7	0.03	1.13	0.19	1.51	0.31
-0.73	-0.53	0.73	-94.63	0.85	1.65			0.01	2.46	0.06	3.06	0.64	0.06	95.4	-0.01	2.14	0.06	2.76	0.58
-2.12	-4.10	2.70	-51.89	1.64	2.98			0.11	3.62	0.03	3.87	0.85	0.12	13.1	0.11	3.48	0.03	3.73	0.83
-2.25	-3.74	2.60	-60.10	1.61	3.83	0.62		0.12	4.20	0.09	4.30	0.95	0.15	37.3	0.11	3.79	0.09	4.37	0.92
-2.07	-5.44	2.49	-55.98	1.58	3.21	1.80	0.041	0.14	3.81	0.16	3.87	0.86	0.21	48.7	0.14	3.76	0.17	4.00	0.88
-0.59	-3.65	1.03	-34.83	1.02	1.55	0.42		0.24	2.60	0.25	2.42	0.58	0.35	46.0	0.23	2.52	0.26	2.54	0.58
-0.03	-0.83	0.08	-18.78	0.29	1.11			0.29	2.05	0.37	2.02	0.45	0.47	51.5	0.17	1.17	0.23	1.24	0.29
0.36	-1.61	0.38	109.50	0.62	1.06			0.09	1.93	0.10	2.36	0.50	0.14	48.1	0.08	1.61	0.09	1.95	0.43

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3.13	-5.03	3.54	117.73	1.88	2.99	2.32	0.189	0.18	2.74	0.19	4.29	0.83	0.26	47.0	0.19	2.96	0.18	4.08	0.83
2.07	-4.59	2.37	119.13	1.54	3.35	0.64		0.17	3.51	0.05	4.19	0.92	0.17	18.2	0.16	3.43	0.05	3.99	0.88
2.11	-5.98	2.91	133.53	1.70	3.85	4.29	2.635	0.28	3.65	0.18	4.54	0.93	0.34	32.7	0.25	3.21	0.16	3.93	0.82
0.74	-2.86	0.92	126.53	0.96	1.25			0.23	2.09	0.25	2.35	0.52	0.34	47.3	0.20	1.81	0.23	2.20	0.46
-0.03	0.04	0.04	-140.67	0.21	0.59			0.17	1.46	0.06	1.61	0.37	0.18	20.2	0.15	1.30	0.05	1.24	0.30
-0.61	-0.23	0.62	-82.52	0.79	1.41			0.14	2.11	0.09	2.80	0.58	0.17	33.6	0.12	1.76	0.08	2.37	0.49
-2.14	-4.67	2.39	-63.61	1.55	2.92	0.31		0.23	3.28	0.06	3.97	0.83	0.24	14.4	0.23	3.26	0.06	3.85	0.81
-1.99	-5.91	2.24	-62.94	1.50	3.36			0.13	3.90	0.00	4.10	0.90	0.13	0.9	0.13	3.77	0.00	4.42	0.92
-1.36	-3.14	1.38	-82.46	1.17	3.23	1.01		0.17	3.79	0.03	4.00	0.88	0.17	8.8	0.16	3.54	0.03	3.91	0.84
-0.13	-3.68	0.36	-21.38	0.60	1.78	1.49	0.260	0.27	2.90	0.18	2.54	0.63	0.33	32.5	0.24	2.55	0.18	2.57	0.58
-0.05	-0.32	0.07	-46.63	0.26	0.66			0.22	1.57	0.22	1.56	0.37	0.31	44.3	0.17	1.15	0.18	1.26	0.29
0.38	-1.78	0.50	130.53	0.70	1.07			0.15	1.98	0.07	2.37	0.50	0.16	24.5	0.13	1.77	0.06	1.99	0.44
0.63	-3.29	1.09	144.72	1.04	2.45	1.46	0.012	0.11	2.79	0.12	3.77	0.77	0.16	46.5	0.11	2.74	0.11	3.36	0.71
2.68	-3.48	3.13	120.93	1.77	4.96	4.26	1.027	0.00	4.48	0.13	5.19	1.10	0.13	90.0	0.00	3.75	0.11	4.40	0.95
2.78	-2.22	3.15	117.83	1.77	2.99	2.37	0.204	0.06	3.17	0.22	4.01	0.85	0.22	74.3	0.06	3.25	0.21	3.92	0.86
1.62	-3.49	1.97	124.69	1.40	2.23	2.69	1.216	0.01	3.01	0.25	3.32	0.72	0.25	87.3	-0.01	2.73	0.25	3.26	0.69
0.17	-0.73	0.17	92.94	0.41	1.51			0.03	1.89	0.38	2.99	0.55	0.38	85.4	0.02	1.56	0.35	2.73	0.48
-0.14	0.50	0.18	-49.22	0.43	1.18			0.06	1.66	0.34	2.55	0.50	0.35	80.4	0.04	1.24	0.29	2.12	0.41
-1.57	0.85	1.63	-74.69	1.28	2.48			0.07	2.94	0.20	3.68	0.76	0.22	69.8	0.07	2.58	0.19	3.51	0.71
-1.69	-1.90	1.77	-73.29	1.33	3.20	0.51		0.06	3.53	0.15	4.16	0.87	0.16	69.6	0.05	3.29	0.14	3.93	0.82
-1.66	-6.36	1.86	-62.82	1.36	4.28			0.03	4.42	0.23	4.58	0.99	0.23	81.5	-0.03	4.46	0.22	4.40	0.98
-2.53	-4.85	2.83	-63.23	1.68	4.32	2.17	0.162	0.11	4.41	0.30	4.45	0.99	0.32	70.6	0.09	3.66	0.27	3.99	0.87
-0.85	-1.87	1.23	-43.70	1.11	1.74			0.15	2.24	0.51	2.90	0.58	0.53	73.8	0.14	2.14	0.51	2.85	0.57
-0.03	1.53	0.27	-6.95	0.52	1.76			0.17	1.78	1.03	2.72	0.50	1.04	80.2	0.13	1.28	0.91	2.41	0.41
1.03	-0.34	1.19	120.46	1.09	2.65			0.10	2.23	0.82	3.78	0.68	0.82	82.6	0.10	2.06	0.73	3.38	0.61
4.02	-4.38	4.63	119.69	2.15	4.93	0.63		0.08	3.01	1.07	5.25	0.93	1.07	85.6	0.08	3.19	1.07	5.26	0.96
1.38	-0.43	1.46	108.34	1.21	3.84	0.26		0.03	3.05	0.87	4.50	0.87	0.86	88.1	-0.03	3.09	0.82	4.24	0.85
1.52	-3.74	1.57	105.01	1.25	3.75	0.26		0.10	2.51	1.12	4.44	0.79	1.12	84.7	0.10	2.55	1.11	4.40	0.75
-0.33	0.93	0.36	-112.29	0.60	2.68			0.14	1.74	1.15	3.70	0.62	1.16	83.0	0.13	1.61	1.04	3.35	0.54
0.45	4.97	0.45	82.70	0.67	3.21			0.18	1.77	1.77	3.63	0.60	1.78	83.9	0.16	1.57	1.67	3.41	0.54
-0.43	3.52	0.43	-96.24	0.66	3.06			0.13	2.16	1.16	3.91	0.68	1.17	83.5	0.11	1.88	1.08	3.64	0.62
-0.83	2.07	1.04	-53.23	1.02	3.98	0.15		0.19	2.99	0.92	4.57	0.84	0.94	78.1	0.18	2.83	0.87	4.31	0.79
-1.49	-0.57	1.62	-66.18	1.27	4.81	0.20		0.17	3.80	0.80	4.95	0.96	0.82	77.5	0.16	3.47	0.76	4.75	0.90
-0.97	2.87	1.51	-39.65	1.23	4.59	0.76		0.26	3.54	1.11	4.57	0.89	1.14	76.6	0.24	3.26	1.02	4.22	0.82
0.05	2.51	0.10	31.77	0.31	2.59			0.21	2.12	1.08	3.51	0.62	1.10	79.0	0.20	2.02	1.01	3.28	0.59
0.26	2.28	0.26	92.38	0.51	2.58			0.22	1.70	1.56	3.24	0.53	1.57	81.7	0.17	1.30	1.43	2.98	0.46

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0.84	1.84	0.87	106.66	0.93	4.02			0.13	1.93	1.63	4.47	0.70	1.63	85.1	0.13	1.80	1.52	4.19	0.65
1.78	1.50	2.11	122.16	1.45	5.19	0.40		0.17	3.01	1.29	5.23	0.92	1.30	82.4	0.15	2.72	1.16	4.71	0.85
4.72	-4.68	5.47	120.45	2.34	8.17	0.88		0.17	3.87	1.45	6.71	1.17	1.46	83.0	0.18	4.00	1.36	6.31	1.15
2.62	-3.81	2.82	111.90	1.68	6.29	2.42	0.456	0.11	3.73	1.44	5.58	1.03	1.44	85.5	0.11	3.78	1.44	5.59	1.03
2.11	-1.46	2.18	103.64	1.47	4.74	3.73	4.124	0.11	3.31	1.36	4.69	0.88	1.36	85.1	0.08	2.39	1.28	4.42	0.75
0.05	3.10	0.10	28.07	0.32	3.79			0.23	2.01	1.89	3.91	0.67	1.90	82.8	0.21	1.82	1.75	3.63	0.58
-0.03	5.37	0.07	-26.06	0.27	4.32			0.22	1.96	2.16	4.10	0.69	2.17	83.9	0.17	1.51	2.01	3.83	0.59
-1.00	1.69	1.03	-76.01	1.01	3.25			0.17	2.31	0.97	4.18	0.74	0.98	79.7	0.16	2.16	0.90	3.91	0.69
-1.47	3.99	1.53	-73.98	1.24	5.04			0.24	3.21	1.16	5.10	0.92	1.18	78.0	0.22	2.96	1.05	4.63	0.84
-1.33	2.60	1.67	-52.76	1.29	4.69	0.41		0.26	3.46	1.01	4.79	0.91	1.04	75.2	0.25	3.33	0.95	4.51	0.87
-0.84	4.19	1.06	-51.99	1.03	4.03	1.15	0.010	0.26	3.46	1.03	4.18	0.84	1.07	75.7	0.24	3.19	0.97	3.94	0.79
-0.30	3.80	0.30	-90.30	0.55	3.32			0.29	2.53	1.50	3.61	0.67	1.53	79.0	0.25	2.25	1.41	3.40	0.62
0.42	3.34	0.42	89.61	0.65	4.33			0.31	2.49	2.01	4.09	0.69	2.04	81.0	0.19	1.53	1.75	3.55	0.53

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RMS-w-t	DIR-w-t	u/U*-b	u/U*-t	v/U*-b	v/U*-t	w/U*-b	w/U*-t	Cd-b-RS	Cd-t-RS	Cd-b-TKE	Cd-t-TKE	Za-b-RS	Za-t-RS	Za-b-TKE	Za-t-TKE	RMSw/S-b	RMSw/S-t
0.80	75.7	2.90	2.69	3.18	2.93	0.95	0.90	0.0012	0.0015	0.0010	0.0012	0.000	0.002	0.000	0.001	0.025	0.027
1.02	78.1	3.42	3.54	4.33	4.70	1.21	1.37	0.0011	0.0014	0.0010	0.0014	0.000	0.002	0.000	0.001	0.035	0.040
1.18	78.8	3.52	3.17	4.88	5.17	1.08	1.35	0.0030	0.0040	0.0028	0.0038	0.020	0.106	0.017	0.093	0.073	0.084
1.73	84.3	3.97	2.67	8.84	6.37	1.72	1.24	0.0098	0.0128	0.0115	0.0127	0.529	1.758	0.723	1.720	0.226	0.231
1.31	86.3	2.12	2.33	4.24	4.52	1.03	1.20	0.0022	0.0021	0.0019	0.0018	0.006	0.009	0.003	0.005	0.064	0.060
1.11	83.0	1.89	1.68	3.16	2.81	0.97	0.97	0.0013	0.0014	0.0010	0.0010	0.000	0.001	0.000	0.000	0.036	0.035
1.03	85.4	1.72	1.72	2.85	2.71	0.85	0.92	0.0013	0.0014	0.0009	0.0010	0.000	0.001	0.000	0.000	0.031	0.031
1.16	85.0	2.48	1.67	3.79	2.63	1.22	0.91	0.0012	0.0019	0.0010	0.0014	0.000	0.007	0.000	0.001	0.037	0.045
1.03	83.5	3.21	1.72	4.71	2.91	1.13	0.79	0.0019	0.0040	0.0018	0.0029	0.003	0.108	0.002	0.034	0.048	0.060
1.63	82.6	2.32	2.26	4.81	4.83	1.02	0.98	0.0181	0.0175	0.0159	0.0153	1.534	2.915	1.260	2.369	0.250	0.241
0.92	81.0	2.28	2.42	3.91	4.21	1.14	1.28	0.0035	0.0028	0.0029	0.0024	0.034	0.032	0.018	0.018	0.061	0.053
0.52	82.8	2.74	2.79	3.31	3.51	1.03	1.19	0.0011	0.0013	0.0009	0.0011	0.000	0.001	0.000	0.000	0.016	0.018
0.50	81.8	2.49	2.39	3.14	3.00	0.94	0.96	0.0010	0.0012	0.0008	0.0009	0.000	0.001	0.000	0.000	0.014	0.015
0.45	74.6	3.13	2.73	3.47	3.31	1.04	1.15	0.0007	0.0010	0.0006	0.0008	0.000	0.000	0.000	0.000	0.011	0.013
0.48	74.4	2.72	2.60	3.21	3.06	1.08	1.09	0.0013	0.0017	0.0010	0.0014	0.000	0.004	0.000	0.001	0.016	0.019
0.99	79.3	3.04	3.49	3.91	4.72	0.89	1.31	0.0036	0.0042	0.0031	0.0040	0.040	0.130	0.024	0.111	0.062	0.071
0.76	84.2	2.22	3.05	4.59	6.49	1.24	1.87	0.0083	0.0072	0.0073	0.0075	0.371	0.535	0.274	0.588	0.084	0.079
0.50	84.0	2.17	2.22	3.16	3.15	1.09	1.12	0.0018	0.0017	0.0014	0.0013	0.003	0.004	0.001	0.001	0.020	0.019
0.56	85.7	1.94	1.93	3.33	3.23	0.94	0.96	0.0009	0.0011	0.0007	0.0008	0.000	0.000	0.000	0.000	0.014	0.015
0.62	80.5	1.58	1.61	2.80	2.68	0.93	0.97	0.0010	0.0013	0.0007	0.0009	0.000	0.001	0.000	0.000	0.017	0.019
0.73	87.9	2.45	1.67	3.59	2.44	0.99	0.84	0.0014	0.0027	0.0012	0.0018	0.001	0.026	0.000	0.005	0.027	0.033
0.91	83.2	2.16	3.08	4.23	6.04	0.92	1.37	0.0060	0.0071	0.0050	0.0071	0.173	0.527	0.106	0.525	0.072	0.086
1.38	86.7	2.80	4.59	6.79	11.81	1.12	1.86	0.0121	0.0078	0.0123	0.0102	0.796	0.644	0.809	1.154	0.174	0.153
0.42	78.1	3.33	2.85	4.41	3.75	1.07	1.01	0.0016	0.0018	0.0015	0.0015	0.002	0.005	0.001	0.002	0.017	0.017
0.91	65.9	3.18	3.07	4.33	4.03	1.14	1.24	0.0010	0.0011	0.0009	0.0010	0.000	0.000	0.000	0.000	0.027	0.027
1.21	60.0	2.81	2.98	3.93	4.22	1.03	1.21	0.0010	0.0011	0.0009	0.0010	0.000	0.000	0.000	0.000	0.036	0.037
								0.0014	0.0014			0.001	0.001				
3.72	78.2	3.82	2.27	7.17	4.38	0.92	0.73	0.0034	0.0054	0.0036	0.0045	0.031	0.254	0.038	0.153	0.250	0.269
4.21	80.7	4.59	3.14	8.47	6.63	1.54	1.33	0.0065	0.0060	0.0077	0.0061	0.211	0.336	0.312	0.360	0.401	0.348
2.91	80.5	2.68	2.62	5.93	5.67	1.25	1.39	0.0016	0.0015	0.0016	0.0015	0.002	0.002	0.001	0.002	0.113	0.105
1.95	76.7	2.23	2.13	4.75	4.40	1.10	1.13	0.0010	0.0010	0.0009	0.0009	0.000	0.000	0.000	0.000	0.053	0.051
3.24	81.7	2.19	1.81	4.82	3.69	0.97	0.85	0.0008	0.0011	0.0007	0.0008	0.000	0.000	0.000	0.000	0.079	0.083
4.71	80.9	2.13	1.48	4.15	3.02	0.85	0.66	0.0009	0.0017	0.0008	0.0012	0.000	0.004	0.000	0.001	0.120	0.150
6.37	83.1	2.55	2.55	5.84	5.80	0.94	0.93	0.0034	0.0038	0.0032	0.0036	0.030	0.091	0.025	0.074	0.364	0.376
7.81	81.9	2.38	1.80	4.71	3.68	0.70	0.63	0.0076	0.0079	0.0065	0.0060	0.303	0.674	0.212	0.350	0.677	0.632

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6.80	80.5	6.98	2.66	12.64	4.77	2.10	0.94	0.0016	0.0025	0.0023	0.0023	0.002	0.021	0.008	0.013	0.341	0.323
4.49	77.5	2.39	3.24	4.14	5.75	0.80	1.19	0.0010	0.0010	0.0008	0.0009	0.000	0.000	0.000	0.000	0.121	0.125
2.45	75.7	3.06	3.29	4.80	5.21	1.00	1.24	0.0007	0.0008	0.0006	0.0008	0.000	0.000	0.000	0.000	0.056	0.061
2.98	73.6	2.57	2.74	4.58	4.84	0.83	1.00	0.0009	0.0010	0.0008	0.0009	0.000	0.000	0.000	0.000	0.078	0.082
3.97	74.7	3.27	3.62	5.09	5.79	0.91	1.13	0.0010	0.0014	0.0009	0.0014	0.000	0.001	0.000	0.001	0.119	0.138
7.14	81.5	3.85	2.03	8.50	4.63	0.91	0.57	0.0025	0.0043	0.0028	0.0035	0.010	0.131	0.015	0.071	0.380	0.415
7.39	85.5	3.97	2.73	10.07	7.45	1.75	1.22	0.0039	0.0036	0.0048	0.0038	0.049	0.078	0.091	0.089	0.511	0.443
5.10	83.2	2.48	1.64	5.41	3.50	1.17	0.78	0.0013	0.0017	0.0012	0.0013	0.001	0.004	0.000	0.001	0.161	0.164
4.45	80.7	2.36	1.87	5.09	3.91	1.07	0.90	0.0008	0.0011	0.0007	0.0009	0.000	0.000	0.000	0.000	0.108	0.114
7.29	83.9	2.61	1.53	5.20	3.43	1.01	0.71	0.0009	0.0015	0.0008	0.0011	0.000	0.002	0.000	0.000	0.177	0.215
6.09	82.0	1.74	1.70	4.25	3.96	0.72	0.71	0.0020	0.0027	0.0016	0.0021	0.004	0.028	0.001	0.010	0.228	0.261
7.17	83.0	7.92	2.85	19.20	6.84	2.99	0.98	0.0032	0.0050	0.0054	0.0050	0.026	0.206	0.132	0.210	0.540	0.500
6.80	80.7	5.98	2.54	12.59	5.59	2.06	0.89	0.0027	0.0032	0.0038	0.0030	0.014	0.052	0.045	0.039	0.431	0.372
3.50	78.2	3.01	3.49	5.58	6.39	1.04	1.30	0.0010	0.0011	0.0010	0.0011	0.000	0.000	0.000	0.000	0.106	0.108
2.54	74.8	2.76	2.51	5.28	4.82	1.03	1.05	0.0007	0.0010	0.0007	0.0009	0.000	0.000	0.000	0.000	0.060	0.066
2.48	74.0	2.74	2.56	4.15	3.87	0.93	0.90	0.0007	0.0010	0.0006	0.0008	0.000	0.000	0.000	0.000	0.058	0.065
4.04	77.9	3.24	2.76	5.84	4.92	0.93	0.91	0.0014	0.0018	0.0013	0.0016	0.001	0.005	0.001	0.003	0.145	0.155
3.51	75.1	5.99	2.18	14.54	5.56	1.56	0.57	0.0033	0.0067	0.0048	0.0059	0.030	0.452	0.096	0.335	0.255	0.276
4.84	83.9	2.66	2.65	6.18	6.48	1.07	1.27	0.0041	0.0031	0.0040	0.0031	0.060	0.047	0.055	0.046	0.315	0.267
3.85	82.9	2.43	1.97	4.95	3.96	1.14	0.96	0.0010	0.0012	0.0009	0.0010	0.000	0.001	0.000	0.000	0.106	0.107
3.07	79.7	2.09	2.24	4.29	4.13	1.06	1.17	0.0007	0.0007	0.0006	0.0006	0.000	0.000	0.000	0.000	0.070	0.068
4.08	82.0	2.29	1.84	4.47	3.48	1.00	0.87	0.0008	0.0011	0.0007	0.0008	0.000	0.000	0.000	0.000	0.095	0.103
5.67	83.3	2.40	1.57	5.18	3.30	0.98	0.63	0.0014	0.0020	0.0012	0.0014	0.001	0.008	0.000	0.002	0.180	0.198
6.11	80.2	2.50	3.92	5.14	8.03	0.98	1.30	0.0036	0.0042	0.0033	0.0047	0.038	0.122	0.027	0.173	0.367	0.426
5.58	81.7	3.71	2.02	7.62	4.58	1.59	0.83	0.0065	0.0071	0.0072	0.0059	0.208	0.515	0.266	0.335	0.509	0.454
3.58	78.6	2.96	3.06	4.87	5.06	1.07	1.13	0.0013	0.0013	0.0012	0.0012	0.000	0.001	0.000	0.001	0.125	0.120
2.16	69.7	2.94	3.01	4.03	4.23	0.92	1.05	0.0008	0.0008	0.0007	0.0007	0.000	0.000	0.000	0.000	0.051	0.052
1.45	71.9	2.67	2.48	4.06	3.82	0.95	0.97	0.0007	0.0009	0.0006	0.0007	0.000	0.000	0.000	0.000	0.032	0.034
2.40	76.1	2.80	2.91	4.51	4.57	0.93	1.05	0.0008	0.0009	0.0007	0.0008	0.000	0.000	0.000	0.000	0.060	0.063
3.56	74.7	3.63	3.76	5.92	6.40	1.01	1.21	0.0012	0.0016	0.0012	0.0017	0.000	0.003	0.000	0.004	0.128	0.144
5.87	83.0	4.81	1.65	10.21	3.78	0.84	0.41	0.0047	0.0089	0.0058	0.0066	0.088	0.859	0.156	0.437	0.491	0.503
3.93	84.3	2.46	1.50	5.88	3.64	1.15	0.78	0.0022	0.0024	0.0020	0.0018	0.005	0.018	0.004	0.005	0.175	0.160
2.54	82.6	2.18	2.39	4.48	4.34	1.09	1.25	0.0008	0.0009	0.0007	0.0008	0.000	0.000	0.000	0.000	0.063	0.063
3.03	81.9	2.21	1.93	4.15	3.40	1.00	0.97	0.0009	0.0009	0.0007	0.0007	0.000	0.000	0.000	0.000	0.076	0.073
								0.0009	0.0014			0.000	0.001				
4.32	82.7	1.97	1.70	4.02	3.58	0.74	0.66	0.0024	0.0035	0.0019	0.0026	0.008	0.069	0.003	0.024	0.184	0.217

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5.53	82.5	2.49	2.00	5.11	4.11	0.79	0.72	0.0067	0.0072	0.0060	0.0058	0.230	0.533	0.173	0.311	0.467	0.442
3.72	80.2	3.15	3.97	5.67	7.25	1.09	1.47	0.0019	0.0014	0.0019	0.0016	0.003	0.001	0.003	0.002	0.167	0.145
2.75	79.6	3.29	2.90	4.56	4.07	0.97	1.00	0.0009	0.0009	0.0008	0.0008	0.000	0.000	0.000	0.000	0.076	0.071
1.97	75.9	2.75	2.99	3.91	4.10	0.93	1.10	0.0007	0.0008	0.0006	0.0007	0.000	0.000	0.000	0.000	0.046	0.049
2.30	77.8	3.28	4.08	4.89	5.98	1.03	1.47	0.0009	0.0009	0.0008	0.0010	0.000	0.000	0.000	0.000	0.066	0.068
4.81	81.5	2.97	3.26	4.84	5.66	0.79	1.04	0.0016	0.0023	0.0014	0.0022	0.001	0.013	0.001	0.012	0.189	0.226
6.32	84.5	4.71	2.66	9.46	5.66	1.10	0.70	0.0050	0.0065	0.0060	0.0060	0.103	0.424	0.171	0.348	0.521	0.504
								0.0019	0.0021			0.003	0.009				
2.79	83.9	3.27	2.31	5.81	4.13	1.42	1.08	0.0006	0.0007	0.0006	0.0006	0.000	0.000	0.000	0.000	0.063	0.059
								0.0006	0.0006			0.000	0.000				
3.14	88.7	2.65	2.80	4.30	4.41	0.94	0.97	0.0011	0.0010	0.0010	0.0009	0.000	0.000	0.000	0.000	0.085	0.081
3.98	74.0	2.93	2.03	4.27	3.34	0.99	0.72	0.0009	0.0019	0.0008	0.0015	0.000	0.007	0.000	0.002	0.110	0.146
								0.0073	0.0063			0.276	0.386				
5.17	63.2	3.82	3.23	5.80	4.84	1.19	0.88	0.0030	0.0027	0.0030	0.0025	0.020	0.026	0.021	0.019	0.293	0.253
2.67	52.8	3.04	3.04	4.33	4.30	0.99	1.02	0.0011	0.0011	0.0010	0.0010	0.000	0.000	0.000	0.000	0.080	0.077
2.35	42.0	2.86	2.64	3.40	3.20	0.87	0.82	0.0008	0.0009	0.0007	0.0007	0.000	0.000	0.000	0.000	0.056	0.055
2.83	41.6	3.87	3.37	3.95	3.47	1.06	0.97	0.0007	0.0010	0.0007	0.0008	0.000	0.000	0.000	0.000	0.067	0.074
3.78	34.0	4.62	3.25	4.26	2.91	1.09	0.82	0.0010	0.0015	0.0009	0.0012	0.000	0.002	0.000	0.001	0.113	0.124
6.33	42.6	3.50	2.74	3.76	2.93	0.64	0.53	0.0049	0.0061	0.0043	0.0047	0.101	0.358	0.066	0.173	0.422	0.430
5.02	36.2	3.48	2.67	4.12	3.12	0.83	0.62	0.0052	0.0044	0.0047	0.0034	0.118	0.142	0.086	0.064	0.342	0.280
4.47	31.7	2.81	2.37	2.75	2.21	0.78	0.73	0.0011	0.0012	0.0008	0.0008	0.000	0.000	0.000	0.000	0.112	0.112
3.56	20.1	3.44	3.29	3.39	3.04	1.03	1.05	0.0005	0.0006	0.0004	0.0005	0.000	0.000	0.000	0.000	0.062	0.066
3.65	24.0	3.01	2.50	2.92	2.30	0.91	0.84	0.0006	0.0007	0.0005	0.0005	0.000	0.000	0.000	0.000	0.066	0.071
5.21	22.9	3.95	3.05	3.43	2.49	0.93	0.80	0.0006	0.0011	0.0005	0.0009	0.000	0.000	0.000	0.000	0.113	0.139
7.81	29.1	4.15	3.50	3.78	3.17	0.70	0.62	0.0045	0.0049	0.0041	0.0041	0.077	0.199	0.057	0.115	0.491	0.480
6.68	24.4	5.12	2.93	4.25	2.40	0.99	0.52	0.0036	0.0040	0.0036	0.0029	0.037	0.104	0.036	0.038	0.395	0.349
5.14	18.6	3.96	3.32	3.23	2.63	0.82	0.77	0.0011	0.0013	0.0009	0.0010	0.000	0.001	0.000	0.000	0.147	0.149
4.44	18.5	4.95	4.75	3.75	3.64	1.08	1.18	0.0006	0.0007	0.0006	0.0006	0.000	0.000	0.000	0.000	0.098	0.097
4.67	15.9	4.29	3.99	3.43	3.09	0.85	0.95	0.0006	0.0008	0.0005	0.0007	0.000	0.000	0.000	0.000	0.099	0.109
5.43	17.5	4.75	3.51	3.29	2.39	0.86	0.76	0.0010	0.0015	0.0010	0.0012	0.000	0.002	0.000	0.001	0.158	0.169
6.83	25.8	3.57	2.55	3.06	2.12	0.56	0.42	0.0034	0.0058	0.0028	0.0040	0.032	0.316	0.016	0.111	0.371	0.430
5.87	25.5	3.65	4.07	3.18	3.56	0.67	0.71	0.0056	0.0045	0.0048	0.0040	0.145	0.152	0.091	0.106	0.404	0.358
4.28	18.7	3.15	2.79	2.81	2.25	0.84	0.79	0.0012	0.0012	0.0009	0.0009	0.000	0.001	0.000	0.000	0.118	0.115
3.53	22.6	2.41	2.33	2.42	2.26	0.75	0.76	0.0009	0.0008	0.0006	0.0006	0.000	0.000	0.000	0.000	0.078	0.074
3.71	21.3	3.39	2.85	3.26	2.63	0.95	0.89	0.0007	0.0008	0.0006	0.0006	0.000	0.000	0.000	0.000	0.081	0.083
4.79	25.3	3.33	3.15	3.28	3.02	0.85	0.90	0.0014	0.0013	0.0012	0.0011	0.001	0.001	0.000	0.000	0.155	0.146

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6.58	29.6	5.56	3.82	5.38	3.80	0.95	0.80	0.0018	0.0032	0.0020	0.0028	0.003	0.049	0.004	0.032	0.285	0.328
7.39	26.2	2.59	2.04	2.34	1.84	0.50	0.39	0.0091	0.0084	0.0066	0.0054	0.456	0.773	0.214	0.257	0.617	0.542
5.29	20.7	3.95	3.31	3.37	2.70	0.82	0.68	0.0016	0.0015	0.0014	0.0012	0.001	0.002	0.001	0.000	0.192	0.167
4.64	16.1	4.36	4.32	3.47	3.43	0.93	1.03	0.0007	0.0007	0.0006	0.0007	0.000	0.000	0.000	0.000	0.104	0.106
								0.0007	0.0008			0.000	0.000				
4.39	15.1	4.14	4.07	3.01	2.86	0.85	0.95	0.0008	0.0010	0.0007	0.0009	0.000	0.000	0.000	0.000	0.111	0.116
5.96	19.1	3.44	2.64	2.48	1.88	0.70	0.57	0.0016	0.0024	0.0013	0.0016	0.001	0.016	0.000	0.003	0.212	0.233
6.42	25.4	5.67	5.06	4.97	4.34	1.11	0.74	0.0055	0.0058	0.0058	0.0057	0.136	0.316	0.158	0.300	0.504	0.486
5.06	26.3	3.86	3.04	3.61	2.88	1.03	0.81	0.0017	0.0018	0.0015	0.0015	0.002	0.005	0.001	0.002	0.183	0.180
3.83	21.9	2.99	2.45	2.77	2.19	0.87	0.81	0.0008	0.0008	0.0006	0.0006	0.000	0.000	0.000	0.000	0.085	0.079
4.13	27.4	3.03	2.83	3.09	2.70	0.92	0.88	0.0008	0.0007	0.0006	0.0006	0.000	0.000	0.000	0.000	0.090	0.084
4.24	28.5	3.31	2.52	3.52	2.64	0.96	0.81	0.0007	0.0010	0.0006	0.0008	0.000	0.000	0.000	0.000	0.090	0.101
7.04	34.1	4.49	3.59	4.71	3.90	0.89	0.70	0.0012	0.0024	0.0012	0.0021	0.000	0.016	0.000	0.009	0.228	0.293
10.00	29.3	3.52	2.18	3.17	1.92	0.59	0.37	0.0049	0.0049	0.0041	0.0032	0.098	0.202	0.056	0.052	0.627	0.540
5.30	21.6	4.82	3.45	4.01	2.82	0.98	0.71	0.0015	0.0015	0.0014	0.0012	0.001	0.002	0.001	0.001	0.190	0.171
4.47	13.4	4.53	4.70	3.89	3.89	1.06	1.11	0.0007	0.0007	0.0007	0.0007	0.000	0.000	0.000	0.000	0.103	0.104
3.65	14.6	4.68	4.22	3.98	3.46	1.17	1.08	0.0006	0.0007	0.0006	0.0006	0.000	0.000	0.000	0.000	0.076	0.079
4.85	11.8	4.56	4.10	3.86	3.34	1.02	1.00	0.0007	0.0008	0.0006	0.0007	0.000	0.000	0.000	0.000	0.109	0.113
5.75	18.8	4.22	2.85	4.00	2.68	0.87	0.65	0.0014	0.0020	0.0013	0.0015	0.001	0.008	0.000	0.002	0.200	0.211
7.13	31.2	3.55	2.19	3.41	2.07	0.59	0.38	0.0052	0.0080	0.0044	0.0053	0.114	0.689	0.071	0.249	0.491	0.520
6.31	30.3	4.17	3.67	4.74	4.21	0.92	0.77	0.0024	0.0023	0.0023	0.0021	0.008	0.016	0.007	0.010	0.268	0.260
4.26	30.2	3.69	3.36	3.93	3.56	0.94	0.96	0.0009	0.0010	0.0008	0.0009	0.000	0.000	0.000	0.000	0.103	0.105
3.69	31.6	3.19	2.93	3.54	3.20	0.96	0.99	0.0005	0.0006	0.0005	0.0005	0.000	0.000	0.000	0.000	0.069	0.072
4.59	32.0	4.05	3.35	4.63	3.64	1.18	1.04	0.0009	0.0009	0.0009	0.0008	0.000	0.000	0.000	0.000	0.124	0.112
7.13	35.3	5.48	3.54	5.84	3.90	0.97	0.70	0.0011	0.0021	0.0012	0.0018	0.000	0.010	0.000	0.005	0.225	0.272
9.91	31.3	9.29	5.73	8.77	5.27	1.36	0.92	0.0019	0.0030	0.0026	0.0032	0.003	0.039	0.013	0.049	0.476	0.504
7.53	27.2	5.96	2.76	5.35	2.42	1.07	0.49	0.0022	0.0026	0.0024	0.0019	0.006	0.024	0.009	0.007	0.355	0.310
5.55	17.8	5.04	4.88	4.19	4.00	1.08	1.12	0.0007	0.0008	0.0007	0.0008	0.000	0.000	0.000	0.000	0.137	0.137
4.12	18.4	4.31	3.98	3.39	3.03	0.92	0.93	0.0006	0.0007	0.0005	0.0006	0.000	0.000	0.000	0.000	0.085	0.090
3.63	20.3	4.13	3.65	3.29	2.88	0.95	0.92	0.0007	0.0009	0.0006	0.0007	0.000	0.000	0.000	0.000	0.083	0.088
4.59	21.3	3.94	3.34	3.29	2.76	0.90	0.86	0.0011	0.0012	0.0010	0.0010	0.000	0.001	0.000	0.000	0.140	0.137
6.38	27.5	3.58	2.30	3.06	1.92	0.52	0.40	0.0031	0.0047	0.0026	0.0031	0.023	0.175	0.011	0.046	0.332	0.352
6.27	28.9	4.20	6.72	3.91	6.22	0.81	1.22	0.0054	0.0037	0.0050	0.0043	0.131	0.082	0.104	0.131	0.443	0.393
5.01	28.2	4.28	4.00	4.54	4.22	1.02	1.08	0.0013	0.0013	0.0013	0.0012	0.000	0.001	0.000	0.001	0.160	0.152
3.91	24.5	3.27	3.27	3.06	3.02	0.86	1.00	0.0007	0.0007	0.0006	0.0006	0.000	0.000	0.000	0.000	0.081	0.083
4.70	30.7	3.87	3.46	3.64	3.17	0.94	0.93	0.0006	0.0008	0.0005	0.0007	0.000	0.000	0.000	0.000	0.094	0.107

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5.62	46.3	5.56	3.09	6.09	3.41	1.14	0.70	0.0010	0.0018	0.0011	0.0015	0.000	0.005	0.000	0.002	0.167	0.191
7.42	35.4	3.84	5.40	3.93	5.38	0.64	0.93	0.0035	0.0036	0.0031	0.0038	0.035	0.074	0.024	0.088	0.403	0.430
6.79	35.3	5.68	3.04	5.54	2.95	1.18	0.55	0.0028	0.0033	0.0030	0.0026	0.016	0.057	0.021	0.024	0.367	0.335
4.43	24.2	4.37	4.46	4.18	4.13	0.97	1.11	0.0009	0.0009	0.0008	0.0008	0.000	0.000	0.000	0.000	0.118	0.115
3.05	20.1	4.00	3.66	3.47	3.16	0.94	0.95	0.0005	0.0007	0.0005	0.0006	0.000	0.000	0.000	0.000	0.060	0.064
2.84	15.6	3.68	3.51	3.29	3.12	0.92	0.95	0.0006	0.0007	0.0005	0.0006	0.000	0.000	0.000	0.000	0.059	0.062
3.20	21.8	4.64	4.39	3.91	3.57	1.15	1.19	0.0010	0.0011	0.0009	0.0010	0.000	0.000	0.000	0.000	0.093	0.094
5.15	33.0	3.96	3.87	3.87	2.69	0.74	0.60	0.0044	0.0102	0.0029	0.0032	0.071	1.145	0.018	0.050	0.261	0.269
5.18	36.5	7.52	7.99	7.99	8.82	1.76	1.69	0.0033	0.0020	0.0089	0.0069	0.028	0.007	0.428	0.491	0.421	0.381
3.52	30.9	3.81	4.18	4.18	3.23	1.12	0.95	0.0027	0.0040	0.0020	0.0021	0.014	0.106	0.004	0.009	0.112	0.114
2.68	29.5	2.53	2.70	2.70	2.34	0.90	0.86	0.0041	0.0048	0.0014	0.0013	0.056	0.185	0.001	0.001	0.058	0.057
2.74	35.3	3.03	3.20	3.21	2.38	1.00	0.85	0.0020	0.0046	0.0010	0.0013	0.004	0.162	0.000	0.001	0.050	0.058
2.85	40.1	3.43	3.42	3.42	3.01	1.04	0.94	0.0020	0.0034	0.0011	0.0015	0.004	0.063	0.000	0.002	0.072	0.082
4.53	36.3	4.47	5.14	5.14	3.72	0.94	0.76	0.0033	0.0059	0.0033	0.0042	0.028	0.322	0.029	0.129	0.200	0.226
4.41	31.7	3.31	3.26	3.26	2.67	0.84	0.50	0.0183	0.0142	0.0090	0.0043	1.553	2.102	0.446	0.131	0.442	0.313
2.95	20.9	4.41	3.74	3.74	3.70	1.12	0.94	0.0022	0.0025	0.0017	0.0014	0.006	0.022	0.002	0.001	0.100	0.091
1.96	17.4	4.59	3.98	3.98	3.00	1.26	0.89	0.0012	0.0028	0.0010	0.0010	0.000	0.030	0.000	0.000	0.045	0.045
1.84	17.5	3.52	3.07	3.07	3.30	0.98	0.94	0.0020	0.0025	0.0010	0.0011	0.004	0.021	0.000	0.000	0.041	0.044
1.77	15.0	3.62	3.02	3.02	3.69	0.97	0.99	0.0019	0.0021	0.0010	0.0012	0.003	0.009	0.000	0.001	0.044	0.047
1.81	22.6	4.02	3.46	3.46	3.29	0.97	0.95	0.0016	0.0032	0.0011	0.0014	0.002	0.050	0.000	0.002	0.068	0.078
3.51	24.2	3.76	3.22	3.22	2.59	0.79	0.42	0.0101	0.0293	0.0055	0.0069	0.557	5.788	0.135	0.480	0.366	0.425
2.23	35.4	4.22	4.27	4.27	3.10	1.11	0.90	0.0028	0.0044	0.0024	0.0020	0.017	0.148	0.008	0.008	0.108	0.098
2.13	19.6	2.66	2.78	2.78	2.26	0.91	0.83	0.0039	0.0053	0.0014	0.0013	0.050	0.240	0.001	0.001	0.051	0.050
2.15	22.4	2.53	2.84	2.84	2.67	0.92	1.00	0.0025	0.0029	0.0009	0.0010	0.010	0.036	0.000	0.000	0.038	0.042
2.21	30.9	2.60	2.74	2.74	2.60	0.89	0.96	0.0032	0.0035	0.0011	0.0012	0.025	0.067	0.000	0.001	0.053	0.055
2.64	26.9	3.80	4.14	4.14	3.25	0.96	0.81	0.0021	0.0041	0.0015	0.0022	0.005	0.116	0.001	0.011	0.102	0.122
3.31	26.4	3.44	3.18	3.18	2.74	0.66	0.60	0.0194	0.0211	0.0093	0.0065	1.701	3.818	0.472	0.425	0.423	0.351
2.04	19.6	3.76	3.61	3.61	3.06	1.10	0.82	0.0027	0.0035	0.0017	0.0014	0.013	0.072	0.002	0.001	0.086	0.081
1.24	13.7	3.54	3.13	3.13	3.22	0.98	0.95	0.0018	0.0022	0.0010	0.0010	0.003	0.011	0.000	0.000	0.031	0.031
1.11	15.4	3.55	3.05	3.05	2.92	0.96	0.89	0.0018	0.0027	0.0009	0.0010	0.002	0.027	0.000	0.000	0.025	0.025
1.02	15.5	2.91	2.83	2.83	2.60	0.87	0.81	0.0024	0.0033	0.0010	0.0011	0.009	0.059	0.000	0.000	0.026	0.027
1.50	16.0	3.26	2.88	2.88	3.07	0.91	0.94	0.0025	0.0031	0.0011	0.0013	0.010	0.047	0.000	0.001	0.056	0.059
1.90	20.0	3.87	3.75	3.75	2.81	0.87	0.64	0.0064	0.0184	0.0041	0.0061	0.199	3.152	0.060	0.355	0.197	0.242
1.01	20.7	2.91	3.23	3.23	2.69	1.04	0.97	0.0034	0.0033	0.0016	0.0013	0.033	0.059	0.001	0.001	0.056	0.051
1.27	25.2	2.00	2.58	2.58	2.06	0.86	0.88	0.0042	0.0039	0.0011	0.0010	0.061	0.097	0.000	0.000	0.032	0.031
1.45	27.6	2.29	2.88	2.88	2.24	0.95	0.95	0.0025	0.0029	0.0008	0.0009	0.009	0.037	0.000	0.000	0.029	0.031

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1.28	26.9	2.14	2.92	2.92	2.14	0.89	0.93	0.0025	0.0032	0.0008	0.0010	0.010	0.049	0.000	0.000	0.029	0.032
1.78	35.8	2.92	3.21	3.21	2.85	1.00	1.08	0.0025	0.0029	0.0012	0.0013	0.011	0.038	0.000	0.001	0.073	0.076
2.12	36.3	5.04	5.62	5.62	4.21	1.33	1.12	0.0031	0.0064	0.0041	0.0055	0.024	0.399	0.057	0.274	0.188	0.219
1.44	24.6	3.11	3.40	3.40	2.95	0.93	0.99	0.0045	0.0033	0.0023	0.0014	0.078	0.056	0.007	0.002	0.083	0.066
0.98	18.3	3.06	3.04	3.04	2.70	0.89	0.92	0.0027	0.0028	0.0012	0.0010	0.014	0.032	0.000	0.000	0.029	0.026
0.76	12.8	2.70	2.65	2.65	2.87	0.92	1.04	0.0024	0.0021	0.0009	0.0009	0.009	0.010	0.000	0.000	0.017	0.017
0.60	27.9	3.18	2.78	2.78	3.02	1.03	1.00	0.0015	0.0020	0.0007	0.0008	0.001	0.009	0.000	0.000	0.013	0.014
0.97	19.3	3.08	3.04	3.04	2.39	0.96	0.88	0.0018	0.0037	0.0008	0.0011	0.002	0.083	0.000	0.000	0.029	0.032
1.12	23.5	3.36	2.92	2.92	2.60	0.98	0.83	0.0033	0.0071	0.0016	0.0021	0.030	0.529	0.001	0.009	0.070	0.079
0.39	1.3	3.61	2.90	2.90	3.85	0.91	0.90	0.0152	0.0106	0.0075	0.0056	1.170	1.242	0.300	0.281	0.047	0.041
1.13	19.1	1.85	2.24	2.24	2.13	0.78	0.83	0.0076	0.0051	0.0016	0.0012	0.305	0.220	0.001	0.001	0.040	0.037
0.97	27.8	1.85	2.36	2.36	2.03	0.85	0.86	0.0034	0.0039	0.0008	0.0009	0.031	0.096	0.000	0.000	0.019	0.021
0.94	23.0	2.57	3.17	3.17	1.97	1.10	0.92	0.0023	0.0034	0.0010	0.0009	0.008	0.066	0.000	0.000	0.024	0.022
1.06	28.8	1.75	2.64	2.64	1.79	0.85	0.82	0.0036	0.0047	0.0009	0.0012	0.038	0.176	0.000	0.001	0.029	0.034
1.30	23.3	1.95	2.11	2.11	4.21	0.74	1.22	0.0088	0.0033	0.0018	0.0029	0.425	0.054	0.003	0.034	0.087	0.113
0.91	20.3	4.56	4.32	4.32	3.48	1.93	1.18	0.0018	0.0021	0.0019	0.0011	0.003	0.009	0.003	0.000	0.066	0.053
0.79	17.8	3.13	3.02	3.02	3.18	1.09	1.12	0.0021	0.0017	0.0010	0.0008	0.005	0.003	0.000	0.000	0.027	0.025
0.56	6.2	2.92	2.80	2.80	2.38	0.98	0.90	0.0026	0.0033	0.0011	0.0010	0.012	0.058	0.000	0.000	0.015	0.014
0.57	19.1	3.19	2.99	2.99	2.60	1.02	0.83	0.0022	0.0034	0.0010	0.0010	0.006	0.060	0.000	0.000	0.015	0.015
0.54	20.8	3.04	2.76	2.76	2.64	0.94	0.89	0.0018	0.0024	0.0007	0.0008	0.002	0.018	0.000	0.000	0.015	0.015
0.08	118.1	3.84	3.25	3.25	3.99	1.02	1.05	0.0022	0.0030	0.0013	0.0017	0.006	0.039	0.001	0.004	0.004	0.005
0.91	31.3	3.15	2.95	2.95	3.20	1.20	0.89									0.322	0.211
0.72	26.4	1.98	2.58	2.58	2.18	0.99	1.04	0.0034	0.0024	0.0009	0.0008	0.031	0.017	0.000	0.000	0.030	0.028
0.49	25.0	1.80	2.34	2.34	2.04	0.94	1.03	0.0036	0.0030	0.0008	0.0008	0.037	0.039	0.000	0.000	0.013	0.013
0.40	8.1	1.76	2.45	2.45	1.75	0.84	0.87	0.0038	0.0040	0.0009	0.0009	0.046	0.112	0.000	0.000	0.010	0.010
0.53	22.2	2.65	3.16	3.16	1.90	1.12	0.87	0.0019	0.0041	0.0008	0.0010	0.003	0.113	0.000	0.000	0.017	0.018
0.33	21.6	3.00	3.36	3.36	3.00	1.30	1.13	0.0019	0.0030	0.0010	0.0014	0.003	0.039	0.000	0.001	0.019	0.024
0.24	16.9	4.37	4.53	4.53	4.34	1.99	2.08	0.0015	0.0007	0.0016	0.0008	0.001	0.000	0.002	0.000	0.023	0.016
0.13	49.3	2.44	2.63	2.63	2.33	1.08	1.00	0.0022	0.0023	0.0008	0.0007	0.006	0.014	0.000	0.000	0.005	0.005
0.19	-16.3	2.64	2.70	2.70	2.51	0.92	0.95	0.0023	0.0025	0.0008	0.0008	0.007	0.019	0.000	0.000	0.005	0.005
0.17	3.2	2.52	2.72	2.72	2.32	0.90	0.96	0.0027	0.0025	0.0009	0.0008	0.013	0.020	0.000	0.000	0.004	0.004
0.21	2.2	2.85	2.89	2.89	2.66	0.98	1.04	0.0022	0.0025	0.0009	0.0010	0.006	0.020	0.000	0.000	0.006	0.006
0.14	15.2	2.11	2.15	2.15	2.32	0.94	1.19	0.0034	0.0024	0.0008	0.0009	0.032	0.017	0.000	0.000	0.008	0.008
0.24	28.6	3.46	3.74	3.74	2.15	1.35	1.10	0.0060	0.0216	0.0040	0.0064	0.174	3.956	0.053	0.406	0.043	0.051
0.12	34.5	2.32	2.84	2.84	2.04	0.98	0.92	0.0045	0.0036	0.0015	0.0009	0.076	0.076	0.001	0.000	0.007	0.006
0.19	34.5	1.77	2.46	2.46	1.85	0.91	1.00	0.0027	0.0025	0.0007	0.0006	0.015	0.022	0.000	0.000	0.005	0.005

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0.10	118.5	2.21	2.62	2.62	2.17	0.92	0.98	0.0021	0.0030	0.0006	0.0008	0.005	0.040	0.000	0.000	0.002	0.003
0.18	100.4	2.24	2.58	2.58	2.13	1.06	1.01	0.0020	0.0030	0.0006	0.0008	0.004	0.038	0.000	0.000	0.005	0.005
0.18	63.5	2.03	2.89	2.89	1.88	1.07	1.08	0.0019	0.0025	0.0006	0.0007	0.003	0.020	0.000	0.000	0.008	0.009
0.35	71.5	2.30	2.70	2.70	3.44	1.17	1.85	0.0069	0.0020	0.0024	0.0017	0.245	0.007	0.008	0.003	0.045	0.039
0.23	85.1	2.38	3.37	3.37	1.93	1.32	1.09	0.0022	0.0023	0.0010	0.0007	0.006	0.014	0.000	0.000	0.013	0.011
0.18	74.7	2.40	2.87	2.87	2.66	1.02	1.09	0.0021	0.0018	0.0007	0.0008	0.005	0.005	0.000	0.000	0.005	0.005
0.07	39.9	2.41	2.71	2.71	2.40	0.93	0.96	0.0021	0.0020	0.0007	0.0007	0.005	0.008	0.000	0.000	0.002	0.002
0.08	-53.4	2.46	2.41	2.41	2.48	0.88	0.90	0.0028	0.0028	0.0008	0.0009	0.015	0.030	0.000	0.000	0.002	0.002
0.14	64.2	3.10	2.65	2.65	2.54	1.13	0.99	0.0018	0.0028	0.0008	0.0009	0.003	0.033	0.000	0.000	0.005	0.005
0.21	72.1	2.71	2.78	2.78	2.64	1.18	1.30	0.0036	0.0037	0.0014	0.0017	0.036	0.085	0.001	0.004	0.018	0.021
0.21	83.6	2.56	3.46	3.46	2.75	1.30	1.61	0.0052	0.0013	0.0025	0.0009	0.115	0.001	0.010	0.000	0.025	0.015
0.08	94.6	2.04	2.69	2.69	1.75	0.98	0.93	0.0035	0.0032	0.0010	0.0007	0.034	0.048	0.000	0.000	0.003	0.002
0.21	79.1	1.85	2.35	2.35	1.78	0.96	0.99	0.0027	0.0029	0.0007	0.0007	0.014	0.036	0.000	0.000	0.005	0.005
0.23	97.8	2.60	2.98	2.98	2.08	1.20	1.02	0.0016	0.0035	0.0007	0.0009	0.002	0.072	0.000	0.000	0.005	0.006
0.41	84.4	2.27	3.13	3.13	1.61	1.27	0.91	0.0018	0.0048	0.0007	0.0010	0.003	0.184	0.000	0.000	0.015	0.018
0.50	84.6	2.56	3.02	3.02	1.98	1.03	0.94	0.0065	0.0088	0.0025	0.0032	0.209	0.849	0.011	0.051	0.045	0.059
0.21	80.8	4.31	6.16	6.16	1.53	2.81	1.11	0.0007	0.0026	0.0011	0.0006	0.000	0.022	0.000	0.000	0.016	0.012
0.10	128.6	2.74	3.20	3.20	2.38	1.21	0.96	0.0019	0.0026	0.0009	0.0009	0.003	0.023	0.000	0.000	0.003	0.003
0.06	33.1	2.41	2.43	2.43	2.80	0.86	0.99	0.0026	0.0021	0.0008	0.0009	0.011	0.009	0.000	0.000	0.002	0.002
0.11	56.9	2.24	2.31	2.31	2.39	0.88	0.92	0.0031	0.0029	0.0008	0.0009	0.022	0.035	0.000	0.000	0.003	0.003
0.09	87.6	2.26	2.10	2.10	2.74	0.90	1.11	0.0034	0.0023	0.0009	0.0009	0.032	0.015	0.000	0.000	0.003	0.004
0.17	73.5	3.17	3.40	3.40	2.16	1.44	1.16	0.0018	0.0043	0.0011	0.0013	0.003	0.131	0.000	0.001	0.013	0.014
0.02	-73.3	3.60	4.20	4.20	4.73	1.34	2.73	0.0089	0.0008	0.0067	0.0015	0.427	0.000	0.226	0.002	0.004	0.002
0.09	66.4	2.60	3.48	3.48	1.96	1.18	1.01	0.0025	0.0021	0.0012	0.0007	0.010	0.011	0.000	0.000	0.004	0.003
0.14	85.4	1.40	2.53	2.53	1.62	0.80	0.94	0.0035	0.0031	0.0007	0.0008	0.035	0.047	0.000	0.000	0.004	0.004
0.20	98.5	2.33	2.85	2.85	2.26	0.95	1.02	0.0031	0.0026	0.0010	0.0008	0.022	0.022	0.000	0.000	0.006	0.005
0.03	-139.4	2.74	3.55	3.55	2.12	1.03	0.96	0.0018	0.0034	0.0009	0.0011	0.002	0.064	0.000	0.000	0.001	0.001
0.27	84.7	2.54	3.21	3.21	1.81	1.09	0.84	0.0020	0.0055	0.0009	0.0013	0.004	0.278	0.000	0.001	0.013	0.016
0.19	82.1	3.36	3.39	3.39	3.55	1.39	2.10	0.0071	0.0013	0.0042	0.0012	0.260	0.001	0.065	0.001	0.036	0.021
0.06	95.1	2.48	3.09	3.09	2.51	1.29	1.39	0.0026	0.0015	0.0011	0.0007	0.012	0.002	0.000	0.000	0.003	0.003
0.11	13.1	2.68	2.87	2.87	2.12	1.11	0.95	0.0018	0.0026	0.0007	0.0007	0.002	0.024	0.000	0.000	0.004	0.003
0.14	40.6	2.76	2.83	2.83	2.35	1.01	0.91	0.0018	0.0022	0.0007	0.0007	0.003	0.012	0.000	0.000	0.004	0.004
0.22	50.0	2.90	2.94	2.94	2.38	1.08	0.93	0.0016	0.0028	0.0007	0.0009	0.001	0.032	0.000	0.000	0.006	0.007
0.35	48.3	3.01	2.80	2.80	2.48	1.23	1.02	0.0018	0.0028	0.0008	0.0009	0.003	0.030	0.000	0.000	0.017	0.018
0.28	53.5	4.17	4.09	4.09	4.03	1.38	2.10	0.0035	0.0039	0.0030	0.0038	0.036	0.097	0.020	0.089	0.057	0.060
0.11	47.9	2.23	2.72	2.72	2.60	1.15	1.53	0.0037	0.0016	0.0013	0.0008	0.043	0.003	0.000	0.000	0.010	0.007

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0.26	43.3	1.49	2.34	2.34	1.58	0.93	0.88	0.0029	0.0041	0.0006	0.0008	0.019	0.115	0.000	0.000	0.008	0.009
0.17	17.7	2.32	2.77	2.77	2.23	1.29	1.21	0.0022	0.0024	0.0008	0.0008	0.006	0.018	0.000	0.000	0.005	0.005
0.30	32.3	2.21	2.76	2.76	1.88	1.00	0.88	0.0023	0.0043	0.0007	0.0010	0.007	0.132	0.000	0.000	0.010	0.011
0.30	49.5	2.76	3.09	3.09	1.89	1.34	0.88	0.0018	0.0054	0.0008	0.0012	0.002	0.260	0.000	0.001	0.019	0.023
0.16	17.7	3.08	3.40	3.40	6.25	1.83	3.11	0.0030	0.0004	0.0019	0.0008	0.021	0.000	0.003	0.000	0.021	0.015
0.14	33.9	2.33	3.09	3.09	2.24	1.32	1.27	0.0028	0.0016	0.0012	0.0006	0.016	0.002	0.000	0.000	0.010	0.007
0.24	14.2	2.67	3.23	3.23	2.11	1.20	0.91	0.0018	0.0030	0.0008	0.0008	0.003	0.043	0.000	0.000	0.008	0.008
0.13	-1.1	2.63	2.76	2.76	2.52	1.02	0.96	0.0024	0.0024	0.0009	0.0009	0.008	0.017	0.000	0.000	0.004	0.004
0.16	9.2	2.45	2.59	2.59	3.01	0.94	1.19	0.0025	0.0016	0.0008	0.0008	0.010	0.003	0.000	0.000	0.006	0.006
0.30	36.3	2.22	1.95	1.95	4.22	0.90	1.59	0.0040	0.0012	0.0009	0.0011	0.054	0.000	0.000	0.000	0.016	0.017
0.24	46.9	2.32	2.30	2.30	4.41	1.09	2.62	0.0129	0.0045	0.0038	0.0057	0.888	0.151	0.046	0.294	0.053	0.062
0.14	23.3	3.35	4.00	4.00	2.52	1.51	1.19	0.0024	0.0028	0.0017	0.0011	0.008	0.033	0.002	0.000	0.013	0.011
0.15	43.8	1.90	2.57	2.57	2.62	1.03	1.32	0.0022	0.0013	0.0006	0.0006	0.006	0.001	0.000	0.000	0.005	0.005
0.11	90.0	2.28	2.65	2.65	2.12	0.99	1.05	0.0020	0.0024	0.0006	0.0007	0.004	0.018	0.000	0.000	0.003	0.003
0.22	73.5	1.93	2.44	2.44	1.83	1.07	1.05	0.0023	0.0036	0.0006	0.0008	0.007	0.076	0.000	0.000	0.007	0.007
0.25	92.2	2.74	3.02	3.02	1.94	1.15	0.92	0.0017	0.0042	0.0007	0.0010	0.002	0.129	0.000	0.000	0.009	0.011
0.35	85.8	1.76	2.79	2.79	3.82	0.88	1.82	0.0084	0.0023	0.0022	0.0031	0.381	0.014	0.006	0.048	0.033	0.041
0.29	81.3	2.80	4.30	4.30	2.91	1.78	2.13	0.0025	0.0009	0.0017	0.0008	0.009	0.000	0.002	0.000	0.029	0.020
0.21	71.3	2.63	3.30	3.30	2.02	1.26	1.09	0.0023	0.0026	0.0011	0.0008	0.007	0.022	0.000	0.000	0.009	0.008
0.15	69.8	2.57	3.03	3.03	2.47	1.10	1.09	0.0018	0.0018	0.0007	0.0007	0.002	0.004	0.000	0.000	0.005	0.005
0.22	98.7	3.00	3.11	3.11	3.27	0.99	1.09	0.0024	0.0019	0.0011	0.0010	0.008	0.006	0.000	0.000	0.008	0.007
0.29	71.9	2.75	2.78	2.78	2.18	0.98	0.92	0.0024	0.0035	0.0009	0.0010	0.009	0.071	0.000	0.000	0.010	0.010
0.52	74.2	2.97	3.84	3.84	1.93	1.30	0.86	0.0024	0.0058	0.0014	0.0015	0.009	0.310	0.001	0.002	0.035	0.036
0.92	81.9	3.47	5.31	5.31	2.47	1.53	1.16	0.0058	0.0130	0.0055	0.0080	0.155	1.796	0.138	0.693	0.154	0.202
0.74	82.4	3.00	5.10	5.10	1.89	1.53	0.88	0.0019	0.0039	0.0016	0.0012	0.003	0.102	0.001	0.001	0.048	0.042
1.08	85.4	2.19	3.82	3.82	1.48	1.14	0.77	0.0025	0.0068	0.0012	0.0013	0.010	0.467	0.000	0.001	0.039	0.041
0.82	91.8	2.21	3.26	3.26	2.56	1.12	1.32	0.0023	0.0018	0.0009	0.0009	0.007	0.005	0.000	0.000	0.030	0.029
1.12	84.6	1.51	2.67	2.67	2.03	0.80	0.78	0.0062	0.0037	0.0014	0.0013	0.190	0.085	0.001	0.001	0.053	0.054
1.05	82.8	1.32	2.82	2.82	2.68	0.80	1.14	0.0123	0.0029	0.0027	0.0023	0.814	0.037	0.014	0.015	0.098	0.095
1.67	84.2	2.39	4.92	4.92	2.34	1.19	0.98	0.0065	0.0037	0.0043	0.0023	0.213	0.083	0.066	0.015	0.195	0.151
1.09	83.9	2.56	4.64	4.64	2.86	1.34	1.52	0.0035	0.0015	0.0023	0.0014	0.033	0.002	0.007	0.001	0.081	0.065
0.88	78.1	2.50	3.81	3.81	2.78	1.08	1.16	0.0023	0.0017	0.0011	0.0010	0.007	0.004	0.000	0.000	0.037	0.036
0.78	78.0	2.89	3.77	3.77	2.72	0.99	0.96	0.0024	0.0023	0.0013	0.0012	0.009	0.015	0.000	0.000	0.031	0.030
1.05	76.6	2.52	3.25	3.25	2.65	0.91	0.95	0.0031	0.0026	0.0012	0.0012	0.022	0.025	0.000	0.001	0.045	0.044
1.03	78.8	4.24	7.04	7.04	6.50	1.76	2.94	0.0013	0.0005	0.0020	0.0019	0.001	0.000	0.004	0.006	0.080	0.076
1.44	83.1	2.95	5.62	5.62	2.53	1.08	1.05	0.0090	0.0113	0.0075	0.0090	0.441	1.387	0.300	0.883	0.258	0.299

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1.53	85.1	2.83	6.56	6.56	1.93	1.35	0.92	0.0021	0.0038	0.0022	0.0018	0.005	0.088	0.006	0.005	0.111	0.100
1.17	82.3	2.48	4.32	4.32	1.87	1.18	1.01	0.0021	0.0032	0.0012	0.0011	0.005	0.052	0.000	0.000	0.049	0.046
1.37	82.4	1.71	2.96	2.96	1.71	0.77	0.79	0.0050	0.0059	0.0013	0.0014	0.105	0.335	0.001	0.002	0.045	0.045
1.45	85.4	3.43	5.14	5.14	2.25	1.36	0.85	0.0013	0.0044	0.0012	0.0016	0.000	0.145	0.000	0.003	0.048	0.057
1.28	86.2	4.48	6.34	6.34	1.62	1.66	0.75	0.0008	0.0064	0.0012	0.0017	0.000	0.398	0.000	0.003	0.053	0.069
1.76	83.0	3.26	6.34	6.34	5.67	1.88	2.05	0.0044	0.0013	0.0052	0.0041	0.071	0.001	0.117	0.119	0.204	0.196
2.02	84.9	2.46	5.14	5.14	5.55	1.51	3.26	0.0081	0.0005	0.0060	0.0025	0.350	0.000	0.175	0.022	0.244	0.172
0.92	79.7	2.14	3.88	3.88	2.13	1.17	1.13	0.0031	0.0023	0.0014	0.0011	0.022	0.015	0.001	0.000	0.051	0.044
1.08	77.8	2.94	4.67	4.67	2.40	1.29	1.02	0.0017	0.0021	0.0012	0.0010	0.002	0.010	0.000	0.000	0.044	0.040
0.99	74.9	2.65	3.66	3.66	2.58	1.05	1.03	0.0026	0.0027	0.0013	0.0012	0.011	0.026	0.000	0.001	0.040	0.039
1.00	75.9	3.31	4.01	4.01	3.10	1.17	1.17	0.0017	0.0020	0.0011	0.0012	0.002	0.008	0.000	0.001	0.042	0.044
1.43	79.6	2.65	3.80	3.80	4.09	1.01	1.54	0.0039	0.0016	0.0020	0.0021	0.051	0.003	0.004	0.009	0.101	0.105
1.76	83.6	3.97	6.51	6.51	2.37	1.14	0.73	0.0076	0.0120	0.0092	0.0080	0.301	1.547	0.465	0.676	0.282	0.297

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E/S**2-b	E/S**2-t	R1	R2	R3	R4	z0	c100	U*	vane	compass	OBS-1	OBS-2	700(9)	700(19)	700(29)	700(39)	700(49)	700(59)	2 (9)
0.022	0.027	27.3	29.5	29.4	27.5	0.013	0.0031	1.56		68.0	0.122	0.078							
0.017	0.022	26.1	28.2	28.0	26.9	0.014	0.0021	1.45		68.0	0.121	0.076							
0.031	0.038	16.0	16.4	16.9	15.8		0.0003	0.28	303	68.0	0.118	0.075							
0.116	0.118	12.2	11.7	12.2	11.4				155	68.0	0.117	0.072							
0.029	0.026	23.5	23.7	26.1	26.6			0.14	157	68.0	0.121	0.076							
0.021	0.021	32.9	33.6	36.4	37.5		0.0002	0.48	133	68.0	0.119	0.075							
0.022	0.023	32.7	33.2	35.7	36.8		0.0001	0.31	127	67.9	0.118	0.075							
0.016	0.023	26.8	26.8	28.7	29.5				121	67.9	0.116	0.073							
0.026	0.038	19.1	18.5	19.3	19.0				106	67.9	0.115	0.072							
0.144	0.131	9.7	8.8	9.1	8.2				119	67.9	0.114	0.071							
0.030	0.022	20.3	19.8	19.9	18.7				331	67.9	0.118	0.073							
0.015	0.017	28.9	30.1	30.1	30.7		0.0007	0.83	314	67.9	0.121	0.076							
0.018	0.021	33.0	35.1	35.2	35.1	0.002	0.0014	1.45	299	67.9	0.123	0.078							
0.014	0.017	34.1	38.3	37.7	36.9	0.179	0.0042	2.90	297	67.9	0.121	0.077							
0.015	0.021	27.5	30.4	30.0	28.0	0.080	0.0033	2.00	294	67.9	0.120	0.076							
0.034	0.044	16.6	16.4	17.4	16.6				276	67.9	0.117	0.073							
0.061	0.055	14.7	14.3	15.9	15.7				182	67.9	0.115	0.072							
0.021	0.019	27.0	27.5	30.4	31.5		0.0001	0.35	142	67.9	0.119	0.075							
0.018	0.022	36.4	36.9	39.9	41.0		0.0001	0.35	134	67.9	0.118	0.075							
0.016	0.019	32.9	33.3	35.9	37.1		0.0001	0.28	120	67.9	0.117	0.073							
0.019	0.028	23.9	23.6	25.0	25.0				109	67.8	0.114	0.071							
0.061	0.086	12.7	11.9	12.3	11.5				96	67.8	0.113	0.070							
0.209	0.160	14.0	13.1	13.4	12.8				336	67.8	0.114	0.070							
0.032	0.031	25.8	26.4	26.5	26.6		0.0002	0.41	315	67.9	0.117	0.073							
0.027	0.028	34.0	35.9	36.0	36.1	0.001	0.0011	1.31	315	67.9	0.121	0.076							
0.025	0.027	32.8	35.2	35.1	34.5	0.007	0.0018	1.66	301	67.9	0.120	0.076							
		28.7	30.8	30.6	29.2	0.007	0.0018	1.45	280	67.9	0.119	0.075							
0.061	0.071	15.5	14.9	16.0	15.3				231	68.0	0.120	0.075							
0.152	0.110	16.9	16.8	17.8	17.4				339	67.9	0.122	0.077							
0.059	0.051	30.7	30.9	33.9	34.3			0.14	95	67.9	0.125	0.081							
0.050	0.046	39.1	40.1	43.5	44.4		0.0003	0.69	127	67.7	0.127	0.081							
0.037	0.042	38.3	39.5	42.5	43.5		0.0004	0.83	139	64.6	0.126	0.082							
0.030	0.046	31.5	31.9	34.0	34.1		0.0001	0.24	122	64.6	0.127	0.082							
0.095	0.102	20.0	19.3	20.2	19.2				141	64.7	0.131	0.086							
0.139	0.121	15.9	14.9	15.2	14.7				46	65.2	0.133	0.087							

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0.061	0.055	24.0	23.4	23.9	23.6				324	66.7	0.141	0.094							
0.037	0.040	37.6	39.0	39.4	38.7		0.0006	0.97	311	67.9	0.136	0.089							
0.030	0.035	42.3	45.0	44.9	44.4	0.002	0.0014	1.83	314	67.8	0.135	0.089							
0.041	0.045	39.1	41.5	41.3	39.9	0.001	0.0013	1.66	308	67.8	0.136	0.090							
0.036	0.048	31.5	33.3	33.4	31.8	0.001	0.0012	1.24	303	67.9	0.137	0.091							
0.093	0.111	19.4	18.9	19.4	18.2				275	68.0	0.149	0.098							
0.163	0.120	22.0	22.2	23.9	23.6			0.14	185	67.9	0.149	0.099							
0.060	0.063	33.6	33.9	36.9	37.4			0.17	134	67.8	0.147	0.099							
0.040	0.045	39.2	39.7	42.8	43.7		0.0001	0.34	99	67.8	0.145	0.098							
0.044	0.062	34.4	34.4	36.3	36.8				144	68.1	0.145	0.098							
0.062	0.083	25.6	25.1	25.8	25.6				79	68.0	0.142	0.095							
0.173	0.148	17.0	15.9	16.5	15.5				20	67.8	0.148	0.096							
0.105	0.077	22.2	21.5	21.9	21.3				256	69.0	0.148	0.097							
0.039	0.041	34.6	35.7	35.9	35.1		0.0004	0.76	310	67.9	0.148	0.099							
0.034	0.042	40.1	42.0	42.3	41.9	0.000	0.0009	1.31	310	68.0	0.142	0.094							
0.025	0.032	39.6	42.7	42.5	41.5	0.013	0.0021	2.18	297	67.9	0.139	0.093							
0.047	0.054	29.3	30.5	30.4	28.8		0.0006	0.79	300	68.0	0.142	0.094							
0.131	0.152	13.5	12.9	13.7	13.2				279	68.0	0.150	0.100							
0.120	0.085	22.4	22.5	24.8	24.5			0.04	169	68.0	0.149	0.099							
0.041	0.043	36.2	37.0	40.1	41.1		0.0002	0.55	104	64.9	0.145	0.097							
0.029	0.028	43.8	45.2	48.7	50.6		0.0004	0.93	106	68.2	0.141	0.095							
0.031	0.038	39.1	39.5	42.3	43.4		0.0001	0.31	99	68.1	0.141	0.095							
0.049	0.060	29.0	28.2	30.5	30.9				117	68.2	0.142	0.096							
0.079	0.106	17.6	14.4	16.9	16.1				127	67.9	0.148	0.100							
0.144	0.110	18.1	15.5	17.8	16.8				338	67.7	0.172	0.117	17.78	3.69	2.17	3.04	1.30	1.18	57.31
0.037	0.034	32.0	31.5	33.1	32.8				323	68.0	0.165	0.114	17.03	3.34	2.00	2.93	1.27	1.23	53.93
0.029	0.029	42.5	44.5	45.7	45.6	0.000	0.0009	1.42	307	67.9	0.149	0.100	17.20	3.44	2.06	2.91	1.27	1.19	52.60
0.030	0.036	43.3	45.6	46.1	46.2	0.000	0.0011	1.62	308	67.9	0.148	0.099	16.58	2.99	1.80	2.76	1.17	1.11	46.45
0.030	0.034	39.4	42.1	42.4	40.8	0.005	0.0017	1.90	294	67.9	0.146	0.095	16.56	3.12	1.85	2.86	1.17	1.11	43.78
0.036	0.046	27.4	27.2	28.2	26.8				320	67.9	0.144	0.095	15.90	3.19	1.96	2.98	1.20	1.13	41.52
0.132	0.135	14.0	12.5	13.3	12.9				190	68.1	0.152	0.100	16.07	3.02	1.82	2.85	1.18	1.12	44.73
0.074	0.062	27.3	26.7	30.0	30.1				166	67.9	0.156	0.106	15.47	2.46	1.61	2.80	1.16	1.13	44.01
0.030	0.033	39.6	40.3	43.8	45.2		0.0001	0.48	100	64.3	0.144	0.096	15.15	2.74	1.65	2.78	1.13	1.09	51.81
0.032	0.031	41.6	42.2	45.4	46.8		0.0001	0.38	112	65.9	0.140	0.093	14.92	2.29	1.54	2.62	1.10	1.07	44.10
		33.3	33.5	35.8	36.5			0.14	70	65.7	0.138	0.092	15.55	2.62	1.64	2.72	1.15	1.09	47.52
0.055	0.076	21.7	21.1	21.7	21.2				86	65.8	0.142	0.093	15.22	2.59	1.70	2.72	1.19	1.08	42.93

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0.121	0.109	16.4	15.5	15.9	15.3				340	65.8	0.148	0.098							
0.054	0.040	28.3	28.1	28.3	27.8				320	65.8	0.149	0.109							
0.035	0.031	40.2	42.5	42.5	42.2	0.001	0.0012	1.59	313	68.0	0.149	0.100	16.78	3.16	1.87	2.75	1.21	1.16	49.27
0.022	0.027	41.0	44.1	43.8	43.8	0.010	0.0020	2.18	313	67.9	0.146	0.099	18.40	3.02	1.76	2.57	1.15	1.10	44.04
0.028	0.030	34.8	36.9	36.9	36.0	0.001	0.0013	1.45	272	67.9	0.145	0.097	18.99	3.00	1.74	2.59	1.15	1.11	39.46
0.038	0.053	24.1	24.7	25.1	23.5		0.0002	0.38	263	67.9	0.153	0.098	19.15	3.11	1.83	2.67	1.17	1.11	39.55
0.151	0.138	15.8	15.3	15.3	14.7				309	68.0	0.159	0.104	19.64	2.95	1.69	2.55	1.18	1.10	47.49
		29.5	29.8	32.6	33.1		0.0001	0.24	147	67.0	0.148	0.100	19.73	2.86	1.70	2.65	1.21	1.16	52.50
0.039	0.034	46.7	48.0	52.2	54.2		0.0003	0.90	161	69.9	0.140	0.093	19.80	2.66	1.66	2.70	1.22	1.17	50.40
		46.8	48.1	51.7	53.6		0.0003	0.90	126	70.0	0.141	0.093	20.37	2.75	1.71	2.58	1.18	1.14	55.52
0.055	0.051	39.1	39.1	42.3	43.5				140	70.1	0.142	0.095	20.55	2.28	1.46	2.26	1.08	1.05	46.38
0.027	0.045	28.1	27.6	29.6	30.0				121	70.6	0.150	0.095	20.27	2.60	1.63	2.46	1.15	1.10	48.85
		15.3	14.5	14.9	13.9				75	71.2	0.154	0.098	20.37	2.96	1.77	2.52	1.17	1.12	42.92
0.087	0.065	23.5	23.0	23.4	23.0				291	71.9	0.159	0.107	21.16	3.47	2.03	2.67	1.27	1.21	51.77
0.038	0.036	36.4	38.0	38.4	38.3		0.0007	1.10	325	68.1	0.154	0.105	22.05	3.95	2.22	2.81	1.34	1.23	61.35
0.033	0.032	44.5	47.2	47.6	47.4	0.001	0.0013	1.86	310	67.8	0.153	0.104	21.79	3.53	2.04	2.63	1.27	1.19	52.79
0.027	0.034	39.5	42.4	42.3	41.3	0.006	0.0018	1.97	324	67.8	0.152	0.104	22.14	3.62	2.08	2.67	1.26	1.18	51.83
0.033	0.040	32.8	34.6	34.5	33.0	0.000	0.0011	1.21	279	67.9	0.150	0.102	21.27	3.77	2.19	2.75	1.32	1.19	53.23
0.112	0.116	18.3	17.5	18.4	17.3				266	67.9	0.159	0.107	21.14	2.90	1.76	2.64	1.24	1.15	43.50
0.156	0.104	20.9	20.7	22.2	21.8				100	68.6	0.156	0.106	20.64	3.06	1.90	2.68	1.24	1.17	53.78
0.042	0.042	40.4	41.6	44.8	46.6		0.0004	0.83	149	68.9	0.149	0.102	21.52	3.46	2.09	3.00	1.44	1.42	66.75
0.028	0.029	52.7	54.1	58.2	60.9		0.0003	0.97	129	68.9	0.145	0.099	21.18	3.35	2.04	2.84	1.34	1.29	65.88
0.026	0.029	49.6	50.7	54.4	56.8		0.0002	0.76	113	69.4	0.145	0.099	21.04	2.87	1.76	2.57	1.17	1.12	57.25
0.024	0.035	37.0	37.4	39.5	40.5		0.0001	0.28	124	69.0	0.142	0.099	20.84	3.55	2.14	2.86	1.28	1.20	65.86
0.128	0.122	17.6	16.5	16.5	16.0				110	69.5	0.148	0.110	21.06	3.49	2.02	2.72	1.25	1.18	50.47
0.113	0.087	23.3	22.8	23.1	21.9				273	68.7	0.152	0.114	21.07	3.99	2.31	2.87	1.39	1.27	59.13
0.042	0.042	36.4	38.1	38.5	38.2		0.0008	1.14	269	67.7	0.154	0.117	22.00	4.11	2.45	2.97	1.45	1.35	64.34
0.035	0.034	47.3	50.5	50.5	49.4	0.003	0.0015	2.18	291	67.7	0.151	0.107	22.50	4.12	2.38	2.92	1.39	1.32	64.48
0.029	0.035	43.2	46.0	46.1	44.9	0.002	0.0015	1.93	286	67.7	0.149	0.106	21.85	3.50	2.00	2.67	1.25	1.16	50.51
0.043	0.049	34.0	35.8	36.0	35.0	0.000	0.0010	1.24	258	67.7	0.150	0.103	22.30	3.89	2.24	2.91	1.35	1.20	51.31
0.077	0.102	19.1	18.4	19.2	18.4				324	67.7	0.156	0.110	22.04	3.13	1.88	2.73	1.25	1.16	44.60
0.146	0.115	19.3	18.7	19.7	19.5				174	68.2	0.156	0.105	21.58	3.02	1.82	2.71	1.21	1.13	50.89
0.045	0.041	38.2	39.3	42.4	44.0		0.0003	0.76	126	68.7	0.157	0.104	21.88	3.67	2.15	3.00	1.31	1.19	70.37
0.037	0.032	48.1	49.4	53.3	55.6		0.0003	0.90	127	69.4	0.149	0.104	22.20	3.71	2.20	3.05	1.37	1.28	73.10
0.030	0.030	43.3	44.2	47.5	49.2		0.0002	0.62	159	69.4	0.150	0.104	22.01	3.65	2.11	2.93	1.29	1.20	70.82
0.044	0.038	32.3	32.6	34.3	35.1			0.21	134	69.2	0.150	0.105	22.16	3.57	2.06	2.88	1.25	1.17	64.61

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0.071	0.096	20.6	20.1	20.5	20.1				87	69.8	0.160	0.109	22.07	2.85	1.73	2.73	1.19	1.15	51.31
0.163	0.126	18.3	17.6	17.9	17.1				214	69.2	0.155	0.106	22.43	3.78	2.22	2.94	1.35	1.24	56.98
0.057	0.042	32.6	33.7	34.3	33.9		0.0004	0.73	293	67.7	0.150	0.112	22.49	3.96	2.33	3.00	1.44	1.35	60.49
0.032	0.033	45.0	47.9	48.3	47.1	0.002	0.0015	2.00	312	67.7	0.156	0.109	22.64	4.23	2.49	3.07	1.47	1.39	65.01
		45.3	47.9	48.2	47.1	0.001	0.0012	1.80	306	67.8	0.152	0.106	22.18	3.60	2.07	2.83	1.28	1.20	52.53
0.032	0.035	39.4	42.3	42.2	41.4	0.008	0.0019	2.04	313	67.8	0.152	0.100	21.84	3.33	1.90	2.75	1.21	1.14	45.07
0.039	0.047	29.3	29.8	30.1	28.4		0.0001	0.35	261	67.8	0.147	0.098	21.55	3.36	1.97	2.74	1.20	1.12	42.55
0.150	0.137	15.4	14.3	15.0	14.4				187	67.8	0.144	0.098	21.46	2.98	1.75	2.73	1.20	1.13	48.30
0.053	0.052	29.7	30.1	32.6	33.6		0.0001	0.24	142	69.0	0.146	0.104	21.50	3.56	2.13	2.99	1.34	1.25	65.37
0.040	0.034	49.8	50.9	55.3	57.9		0.0002	0.76	160	68.9	0.147	0.101	21.17	3.73	2.17	3.03	1.35	1.26	70.83
0.040	0.034	49.2	50.5	54.2	56.6		0.0003	0.90	150	69.3	0.148	0.102	21.60	3.60	2.12	2.99	1.34	1.26	70.34
0.030	0.037	41.5	42.4	45.3	46.4		0.0002	0.62	124	69.3	0.149	0.102	21.49	3.30	1.92	2.78	1.19	1.12	59.98
0.052	0.087	24.4	23.8	24.7	24.6				105	69.4	0.153	0.107	21.55	3.11	1.90	2.85	1.22	1.17	53.70
0.141	0.104	21.9	20.2	21.1	20.5				121	71.8	0.149	0.114	22.53	3.88	2.28	3.10	1.40	1.31	58.69
0.060	0.048	32.6	32.9	33.9	33.7			0.17	358	68.0	0.149	0.119	22.04	4.19	2.39	3.08	1.40	1.30	62.61
0.037	0.036	44.4	46.5	47.1	46.3	0.000	0.0008	1.42	296	68.0	0.148	0.109	22.61	4.05	2.37	3.07	1.43	1.38	63.53
0.028	0.029	47.7	50.3	51.0	50.2	0.001	0.0011	1.83	304	68.0	0.148	0.103	21.93	3.72	2.14	2.93	1.31	1.24	54.32
0.033	0.034	44.3	47.3	47.4	46.3	0.004	0.0016	2.07	307	68.1	0.145	0.097	22.05	3.60	2.08	2.92	1.27	1.18	48.97
0.045	0.050	30.2	30.3	31.4	30.6			0.03	275	68.0	0.142	0.098	21.22	3.53	2.03	2.84	1.23	1.15	48.01
0.113	0.126	16.4	14.1	16.0	15.5				219	68.0	0.143	0.098	20.95	2.96	1.79	2.83	1.23	1.16	50.47
0.104	0.098	26.6	26.2	28.1	28.8				157	67.9	0.158	0.110	20.81	3.33	2.00	2.99	1.28	1.20	62.95
0.049	0.052	41.6	42.0	45.8	47.7			0.28	143	70.1	0.147	0.103	20.35	3.24	1.98	3.00	1.32	1.34	61.94
0.028	0.031	50.0	51.4	55.2	57.6		0.0003	0.97	120	70.6	0.147	0.099	21.18	3.94	2.39	3.17	1.43	1.33	79.34
0.055	0.044	41.4	42.7	46.0	47.8		0.0004	0.90	142	70.2	0.147	0.103	20.88	3.56	2.07	3.03	1.29	1.23	69.62
0.061	0.090	26.8	26.4	27.6	27.8				148	71.0	0.151	0.110	20.32	3.09	1.89	2.88	1.22	1.21	59.11
0.124	0.138	21.2	20.0	20.0	19.4				168	71.0	0.148	0.104	20.76	3.78	2.28	3.05	1.37	1.29	53.83
0.089	0.067	25.9	25.4	26.0	26.0				322	67.7	0.157	0.117	21.15	4.00	2.37	3.08	1.37	1.26	57.33
0.036	0.035	42.0	43.7	44.5	44.1		0.0006	1.17	331	67.6	0.156	0.108	21.71	4.11	2.45	3.14	1.47	1.43	62.12
0.030	0.033	46.9	50.1	50.6	49.5	0.004	0.0016	2.21	291	67.6	0.153	0.104	21.93	4.23	2.47	3.21	1.45	1.32	60.99
0.030	0.033	43.7	46.9	47.1	46.0	0.007	0.0018	2.21	322	67.6	0.148	0.101	21.77	3.82	2.24	3.06	1.31	1.21	51.51
0.036	0.035	35.9	37.6	37.8	36.8	0.000	0.0008	1.14	283	67.7	0.146	0.096	21.67	3.71	2.17	3.05	1.34	1.26	50.85
0.070	0.079	20.9	20.0	21.2	19.5				348	67.7	0.143	0.098	20.97	3.42	2.10	3.05	1.31	1.19	46.77
0.163	0.128	18.7	18.5	19.2	19.2				182	68.0	0.154	0.103	21.28	3.05	1.81	2.86	1.21	1.13	49.08
0.065	0.059	34.5	34.8	37.4	38.7			0.17	139	71.1	0.148	0.103	20.11	3.05	1.90	2.91	1.25	1.20	56.66
0.033	0.035	46.5	47.3	50.7	53.3		0.0001	0.55	116	70.5	0.142	0.098	20.45	3.11	1.92	2.91	1.24	1.19	60.04
0.031	0.040	43.7	44.4	47.3	49.0		0.0001	0.48	96	69.6	0.142	0.099	20.72	3.45	2.01	2.99	1.26	1.18	65.63

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0.057	0.076	29.7	29.1	31.0	31.5				67	69.9	0.147	0.103	19.97	2.79	1.69	2.73	1.15	1.10	49.49
0.112	0.126	18.2	16.5	17.2	16.7				168	69.9	0.150	0.105	20.70	3.85	2.22	3.16	1.40	1.24	55.58
0.092	0.076	24.0	22.4	23.6	23.1				350	70.2	0.157	0.129	20.67	3.53	2.06	2.92	1.27	1.20	54.42
0.037	0.036	39.8	41.0	41.8	40.9		0.0004	0.86	273	68.0	0.150	0.110	21.46	3.51	2.06	2.87	1.33	1.33	56.86
0.027	0.030	49.0	51.8	52.4	51.5	0.001	0.0012	1.97	301	68.0	0.148	0.100	21.83	3.51	2.06	2.89	1.28	1.21	56.90
0.026	0.028	46.2	49.4	49.7	48.7	0.004	0.0017	2.21	330	68.0	0.140	0.095	21.98	3.35	1.98	2.89	1.24	1.16	48.91
0.033	0.034	35.8	38.3	38.6	37.9	0.005	0.0017	1.73	286	68.0	0.139	0.093	21.76	3.16	1.88	2.86	1.21	1.14	42.92
0.068	0.073	21.6	21.3	22.2	20.9				271	68.0	0.138	0.094	21.55	2.83	1.73	2.77	1.15	1.10	37.42
0.203	0.163	17.4	17.1	17.4	17.1				211	68.0	0.142	0.094	20.77	2.91	1.76	2.80	1.18	1.12	44.54
0.045	0.046	33.1	33.5	36.3	37.5		0.0001	0.28	139	69.1	0.139	0.094	20.38	2.92	1.80	2.92	1.22	1.16	52.14
0.029	0.028	47.6	48.4	52.6	54.9		0.0001	0.55	122	70.1	0.138	0.093	20.45	2.86	1.79	2.88	1.19	1.13	52.45
0.021	0.028	46.8	48.1	51.4	53.4		0.0003	0.86	142	70.2	0.137	0.094	20.30	2.79	1.69	2.78	1.15	1.10	49.32
0.025	0.032	34.4	34.4	36.5	37.5				134	70.2	0.137	0.095	20.18	2.89	1.72	2.78	1.13	1.10	47.20
0.078	0.101	20.3	19.8	20.5	20.1				72	71.0	0.137	0.096	20.52	3.63	2.20	3.18	1.36	1.21	52.51
0.203	0.100	18.4	17.8	18.4	17.6				325	70.4	0.143	0.112	21.25	3.94	2.34	3.07	1.40	1.30	52.42
0.038	0.031	32.9	34.0	34.5	34.1		0.0004	0.72	322	67.6	0.144	0.113	21.85	3.50	2.05	2.88	1.28	1.21	49.89
0.023	0.022	44.2	46.7	46.9	46.8	0.001	0.0012	1.73	324	67.9	0.137	0.100	21.68	3.41	2.04	2.85	1.27	1.20	46.98
0.023	0.024	42.2	45.5	45.4	45.6	0.011	0.0020	2.28	308	67.9	0.131	0.096	21.64	2.75	1.70	2.64	1.14	1.10	36.00
0.022	0.026	38.2	41.4	41.3	40.2	0.021	0.0023	2.24	287	67.9	0.129	0.087	21.50	2.70	1.66	2.63	1.15	1.10	31.93
0.024	0.031	26.1	27.4	27.1	25.7	0.000	0.0010	0.93	300	68.0	0.124	0.084	21.64	2.25	1.47	2.46	1.07	1.06	26.39
0.126	0.165	11.4	10.3	11.1	10.5				248	68.0	0.122	0.083	21.05	2.67	1.62	2.64	1.15	1.09	34.76
0.053	0.044	24.7	24.5	27.0	27.9				119	65.5	0.128	0.088	21.37	2.54	1.60	2.65	1.15	1.10	41.59
0.031	0.027	43.8	44.9	49.0	50.7		0.0003	0.79	129	68.6	0.129	0.088	21.62	2.53	1.61	2.68	1.21	1.21	45.09
0.019	0.022	48.9	50.3	53.9	56.2		0.0003	0.93	142	70.7	0.130	0.088	21.53	2.35	1.49	2.53	1.09	1.07	41.43
0.024	0.025	40.3	40.9	43.6	45.4		0.0001	0.42	126	71.0	0.131	0.088	21.36	2.40	1.47	2.52	1.09	1.05	39.16
0.034	0.050	22.3	22.2	23.1	23.0				112	71.2	0.130	0.090	21.10	2.38	1.51	2.53	1.08	1.05	35.13
0.217	0.150	13.7	12.9	13.3	12.7				108	71.4	0.131	0.092	20.97	2.39	1.50	2.40	1.09	1.10	30.42
0.038	0.031	28.4	28.4	28.7	28.1				327	69.7	0.134	0.093	21.75	2.79	1.70	2.59	1.17	1.14	39.94
0.021	0.021	41.0	43.1	43.5	43.2	0.000	0.0010	1.45	321	67.9	0.132	0.094	22.01	2.79	1.67	2.52	1.17	1.15	41.20
0.020	0.021	42.8	46.2	46.3	46.6	0.013	0.0021	2.35	304	67.9	0.130	0.090	21.77	2.58	1.59	2.47	1.12	1.08	36.23
0.021	0.024	36.4	39.1	39.1	39.1	0.008	0.0019	1.86	297	68.0	0.126	0.087	21.59	2.31	1.46	2.37	1.08	1.07	29.96
0.024	0.028	27.9	29.9	29.8	28.4	0.007	0.0018	1.42	294	68.0	0.121	0.083	21.46	2.05	1.36	2.28	1.05	1.04	22.61
0.095	0.138	10.7	9.7	11.0	10.6				268	68.0	0.116	0.080	21.57	1.95	1.28	2.25	1.06	1.03	22.14
0.034	0.029	22.1	22.2	24.5	24.8			0.07	156	67.5	0.117	0.081	21.61	2.09	1.37	2.48	1.10	1.06	30.81
0.024	0.020	40.8	41.8	45.0	47.1		0.0003	0.69	141	70.5	0.123	0.085	21.08	2.15	1.42	2.52	1.11	1.09	36.91
0.018	0.019	44.7	45.8	49.3	51.7		0.0003	0.79	131	70.7	0.125	0.087	21.69	2.22	1.42	2.45	1.09	1.06	38.03

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0.017	0.021	39.4	39.9	42.6	44.2		0.0001	0.31	116	70.8	0.124	0.087	21.65	2.33	1.43	2.38	1.07	1.05	36.07
0.025	0.028	24.1	24.0	25.2	25.4				115	71.3	0.125	0.088	21.80	1.92	1.28	2.22	1.05	1.03	27.50
0.092	0.124	12.7	11.7	11.7	10.6				122	71.6	0.125	0.086	21.98	2.14	1.40	2.29	1.06	1.05	24.42
0.050	0.031	25.6	25.4	25.9	24.8				331	69.7	0.124	0.087	22.65	2.66	1.61	2.53	1.15	1.11	33.69
0.026	0.022	37.2	39.0	39.1	39.6	0.000	0.0008	1.21	310	67.7	0.130	0.091	22.68	2.61	1.58	2.50	1.15	1.15	36.03
0.018	0.018	43.3	46.6	46.9	47.7	0.008	0.0019	2.24	313	67.8	0.122	0.087	22.89	2.25	1.42	2.31	1.09	1.07	30.98
0.014	0.017	41.5	46.0	45.4	45.6	0.094	0.0035	3.11	301	67.9	0.119	0.084	22.73	2.09	1.34	2.29	1.07	1.05	25.79
0.017	0.023	32.3	35.4	35.0	33.7	0.041	0.0028	2.11	296	68.0	0.119	0.082	22.52	1.93	1.26	2.24	1.04	1.04	22.62
0.035	0.045	17.7	17.9	18.4	17.4		0.0001	0.14	278	68.0	0.115	0.081	22.07	1.58	1.14	2.13	1.03	1.03	17.02
0.169	0.127	14.3	14.2	15.7	15.7				162	68.0	0.114	0.080	21.50	1.66	1.22	2.30	1.05	1.04	21.84
0.034	0.026	32.5	32.5	35.5	36.6				132	70.1	0.115	0.083	21.83	1.85	1.28	2.48	1.09	1.07	30.12
0.016	0.019	44.4	45.5	49.4	52.0		0.0003	0.76	132	70.4	0.119	0.084	22.04	1.95	1.29	2.46	1.06	1.04	34.02
0.021	0.018	40.4	41.1	43.9	45.5		0.0002	0.52	141	70.7	0.119	0.085	22.07	1.67	1.16	2.18	1.04	1.03	27.14
0.019	0.026	30.3	31.1	33.0	34.3		0.0003	0.52	110	70.9	0.118	0.084	22.33	1.59	1.12	2.12	1.03	1.03	23.53
0.039	0.063	13.4	12.9	13.2	12.4				122	70.9	0.117	0.086	22.26	1.54	1.13	2.11	1.03	1.03	20.66
0.040	0.024	18.9	18.3	18.9	18.7				324	70.7	0.116	0.084	23.07	1.77	1.20	2.11	1.04	1.03	22.75
0.021	0.018	34.9	35.0	35.0	34.5			0.06	317	68.4	0.120	0.087	23.15	2.10	1.35	2.31	1.08	1.07	30.59
0.023	0.020	41.7	43.3	43.6	44.1		0.0006	1.10	311	67.9	0.125	0.088	22.68	2.08	1.35	2.25	1.07	1.06	28.97
0.022	0.023	38.2	40.7	40.5	40.8	0.003	0.0016	1.76	303	68.0	0.120	0.087	22.54	1.86	1.23	2.12	1.05	1.04	24.16
0.016	0.017	33.3	37.2	37.1	37.0	0.131	0.0038	2.66	301	67.8	0.110	0.085	22.09	1.62	1.14	2.04	1.03	1.03	19.23
0.029	0.039	18.8	20.1	20.1	19.0	0.003	0.0015	0.86	292	67.9			22.34	1.58	1.11	2.05	1.03	1.03	17.77
		7.7	6.8	7.3	6.5				265	68.0			22.65	1.57	1.11	2.08	1.03	1.03	17.14
0.020	0.016	26.9	27.1	29.8	30.6			0.14	123	69.5			22.65	1.73	1.19	2.22	1.04	1.03	23.14
0.017	0.017	37.5	38.1	41.2	43.2		0.0001	0.41	134	69.7			22.41	1.70	1.17	2.21	1.04	1.03	24.14
0.019	0.018	38.6	39.4	42.2	43.8		0.0002	0.52	148	70.3			22.51	1.58	1.12	2.13	1.03	1.03	21.95
0.017	0.021	28.9	29.0	30.4	31.2			0.04	113	70.5			21.78	1.50	1.09	2.04	1.03	1.03	17.97
0.021	0.029	14.9	14.1	14.3	13.9				101	70.5			22.04	1.52	1.14	2.18	1.06	1.03	16.14
0.034	0.016	16.8	16.0	17.0	16.9				62	70.0			22.98	1.60	1.14	2.06	1.03	1.03	15.62
0.016	0.014	32.1	31.8	32.0	30.9				322	67.9			23.26	2.00	1.30	2.25	1.09	1.08	24.51
0.017	0.018	40.4	42.2	42.2	43.6		0.0008	1.24	307	68.0			22.92	2.00	1.30	2.18	1.06	1.05	24.91
0.019	0.018	39.9	42.8	42.4	43.2	0.006	0.0018	2.00	311	68.0			23.12	1.94	1.26	2.16	1.05	1.04	22.77
0.019	0.020	31.3	34.6	34.4	34.2	0.087	0.0034	2.31	301	68.0			23.05	1.68	1.17	2.07	1.03	1.04	19.19
0.017	0.019	20.0	21.7	21.6	20.1	0.021	0.0023	1.17	307	68.1			22.23	1.68	1.13	2.05	1.03	1.03	16.51
0.084	0.130	6.6	5.7	6.6	6.0				278	68.1			22.31	1.45	1.13	1.97	1.03	1.03	14.52
0.032	0.018	23.3	23.4	26.2	26.8			0.10	142	67.0			22.57	1.58	1.14	2.14	1.04	1.03	19.73
0.014	0.012	38.3	38.8	41.8	43.4		0.0001	0.31	128	68.7			23.08	1.46	1.14	2.19	1.04	1.03	20.49

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0.013	0.017	40.7	41.7	44.6	46.2		0.0003	0.69	122	70.1			23.03	1.46	1.09	2.07	1.04	1.03	19.99
0.013	0.016	34.4	34.6	36.9	38.5			0.17	125	70.2			22.80	1.40	1.08	1.95	1.03	1.03	18.00
0.013	0.015	20.3	20.0	20.8	21.0				117	70.4			22.71	1.33	1.06	1.84	1.03	1.03	15.29
0.048	0.034	10.9	10.0	10.4	9.5				62	70.5			22.72	1.35	1.06	1.81	1.03	1.03	14.15
0.020	0.015	24.0	23.3	23.6	22.5				323	69.8			22.81	1.52	1.12	1.89	1.03	1.03	17.89
0.016	0.017	34.4	35.5	35.8	36.5		0.0004	0.72	317	67.9			22.44	1.71	1.21	2.03	1.04	1.05	22.62
0.015	0.015	40.1	41.8	41.4	42.8		0.0007	1.21	313	67.9			22.84	1.73	1.20	2.00	1.04	1.04	23.00
0.018	0.020	38.1	42.1	41.7	42.2	0.084	0.0034	2.80	309	68.0			23.19	1.72	1.19	2.10	1.04	1.04	21.45
0.016	0.018	28.4	31.7	31.3	30.3	0.124	0.0038	2.24	296	68.1			23.28	1.58	1.11	2.01	1.03	1.03	17.27
0.029	0.035	14.2	14.4	14.6	13.4		0.0001	0.14	293	68.1			23.15	1.54	1.12	2.01	1.04	1.03	15.77
0.052	0.018	16.0	15.9	18.0	18.3				227	68.1			23.24	1.57	1.13	2.13	1.04	1.03	18.89
0.022	0.015	33.5	34.2	37.2	38.7		0.0002	0.52	137	67.0			23.11	1.68	1.19	2.28	1.05	1.04	22.88
0.013	0.014	42.4	43.3	46.5	48.7		0.0002	0.62	142	70.5			22.48	1.58	1.15	2.12	1.03	1.03	21.33
0.014	0.019	36.8	37.5	40.0	42.0		0.0002	0.48	139	70.5			22.23	1.48	1.11	2.02	1.03	1.03	18.90
0.015	0.020	23.1	22.8	23.9	24.4				121	70.7			22.59	1.49	1.11	2.01	1.03	1.03	15.47
0.054	0.073	10.8	9.8	10.1	9.1				72	71.0			21.36	1.50	1.10	1.98	1.03	1.03	14.13
0.022	0.012	19.2	18.2	18.9	18.3				353	70.7			21.58	1.64	1.17	2.03	1.04	1.04	15.63
0.018	0.018	31.7	32.1	32.3	32.8		0.0001	0.24	314	68.0			22.10	1.84	1.24	2.11	1.05	1.04	20.80
0.016	0.019	35.9	38.2	38.2	39.1	0.003	0.0015	1.62	310	67.9			22.35	1.83	1.24	2.16	1.04	1.03	20.92
0.017	0.020	32.6	35.7	35.5	35.4	0.043	0.0028	2.14	303	68.0			22.51	1.69	1.17	2.09	1.03	1.03	18.11
0.018	0.019	24.6	27.4	27.2	25.7	0.110	0.0036	1.90	302	68.1			22.36	1.47	1.08	1.92	1.03	1.03	14.76
0.022	0.025	15.5	16.2	16.3	15.0		0.0008	0.48	294	68.0			22.60	1.48	1.08	1.94	1.03	1.03	13.97
0.144	0.032	12.9	12.5	14.0	13.9				266	68.1			22.95	1.45	1.12	1.99	1.04	1.03	15.10
0.025	0.014	29.0	29.3	31.7	32.8		0.0001	0.24	132	67.2			22.80	1.46	1.13	2.18	1.04	1.04	18.50
0.016	0.018	37.7	38.7	41.7	43.5		0.0003	0.69	124	70.5			22.79	1.44	1.11	2.11	1.03	1.03	19.02
0.022	0.016	38.9	41.4	44.4	46.3	0.002	0.0015	1.73	131	70.7			22.91	1.35	1.07	1.88	1.03	1.03	16.79
0.019	0.024	24.3	25.8	27.7	28.6	0.002	0.0014	1.04	116	71.0			22.73	1.29	1.04	1.86	1.03	1.03	14.54
0.018	0.028	17.5	17.1	18.0	17.9				113	70.9			22.69	1.28	1.04	1.89	1.03	1.03	13.70
0.088	0.025	11.0	10.1	10.6	10.2				69	71.3			23.10	1.34	1.06	1.93	1.03	1.03	13.84
0.023	0.014	25.3	24.6	24.8	23.8				323	70.1			23.43	1.44	1.12	1.96	1.03	1.03	17.68
0.015	0.014	34.1	34.8	35.1	35.3		0.0002	0.48	318	67.8			22.77	1.56	1.14	2.04	1.04	1.03	20.02
0.015	0.015	33.1	35.2	34.9	35.7	0.002	0.0014	1.45	304	67.8			22.93	1.53	1.13	2.00	1.03	1.03	18.28
0.014	0.018	29.0	32.3	32.3	32.3	0.120	0.0037	2.28	303	67.9			23.16	1.51	1.11	2.06	1.03	1.03	16.28
0.017	0.019	21.1	23.1	22.9	21.6	0.050	0.0029	1.42	306	67.9			23.46	1.38	1.07	1.94	1.03	1.03	13.95
0.064	0.075	7.8	7.0	7.6	7.1				280	68.0			23.20	1.28	1.06	1.97	1.04	1.03	12.72
0.026	0.015	18.2	18.3	20.6	20.9			0.03	183	68.0			23.21	1.45	1.10	2.11	1.03	1.03	16.12

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0.013	0.016	31.2	31.8	34.5	35.7		0.0002	0.41	138	69.2			23.14	1.46	1.11	2.06	1.03	1.03	17.42
0.016	0.016	31.5	32.0	34.5	35.9		0.0001	0.35	136	69.5			22.94	1.32	1.07	2.03	1.03	1.03	15.31
0.015	0.021	27.2	27.4	29.3	30.1			0.17	117	69.4			22.94	1.25	1.05	1.91	1.03	1.03	13.99
0.017	0.026	14.6	13.9	14.3	14.0				104	70.0			22.61	1.30	1.05	1.94	1.03	1.03	13.14
0.037	0.016	11.2	10.4	11.1	10.6				61	70.3			23.89	1.26	1.06	1.95	1.03	1.03	12.29
0.024	0.012	22.3	21.7	21.9	20.6				321	69.2			23.87	1.45	1.11	2.08	1.03	1.03	15.24
0.018	0.017	29.6	30.3	30.4	30.4		0.0003	0.52	312	67.7			23.98	1.51	1.12	2.11	1.03	1.03	18.29
0.019	0.019	30.2	31.8	31.7	32.3	0.000	0.0010	1.10	313	67.9			23.92	1.46	1.10	1.98	1.03	1.03	16.00
0.017	0.018	27.9	30.4	30.4	30.5	0.034	0.0026	1.76	313	67.9			23.66	1.35	1.07	1.98	1.03	1.03	13.64
0.019	0.022	20.3	22.1	21.6	20.1	0.028	0.0025	1.24	286	68.0			23.98	1.36	1.06	1.98	1.04	1.03	12.95
0.076	0.110	7.0	6.4	7.2	6.7				280	68.0			23.54	1.26	1.06	2.00	1.04	1.03	12.35
0.035	0.022	17.0	16.8	18.8	19.1				202	67.9			23.24	1.27	1.08	2.15	1.05	1.03	13.51
0.012	0.013	29.1	29.3	32.6	33.6			0.14	122	67.1			22.71	1.25	1.06	2.14	1.03	1.03	14.27
0.013	0.014	35.3	36.0	38.7	40.2		0.0002	0.48	124	69.2			22.47	1.25	1.07	2.08	1.03	1.03	14.79
0.013	0.017	30.2	30.5	32.4	33.6			0.21	131	70.4			22.90	1.21	1.04	1.97	1.03	1.03	14.06
0.015	0.021	21.5	21.4	22.6	22.9				124	70.6			22.38	1.18	1.03	2.03	1.03	1.03	12.80
0.049	0.072	10.5	9.6	9.9	9.0				107	70.8			22.67	1.21	1.04	2.01	1.03	1.03	12.69
0.036	0.017	17.5	16.5	17.1	16.7				33	69.9			22.46	1.27	1.06	2.00	1.03	1.03	13.93
0.022	0.016	29.3	29.2	29.3	28.2				324	68.0			22.29	1.37	1.07	2.01	1.03	1.03	16.85
0.015	0.014	33.0	33.8	33.7	34.1		0.0002	0.55	303	67.9			22.44	1.40	1.08	1.99	1.03	1.03	16.52
0.023	0.021	30.7	32.8	33.2	33.3	0.004	0.0016	1.45	318	67.9			22.54	1.41	1.09	2.02	1.03	1.03	16.40
0.020	0.020	29.2	32.3	32.0	30.9	0.083	0.0033	2.14	296	67.9			22.37	1.39	1.07	2.04	1.03	1.03	15.01
0.031	0.032	16.9	17.5	17.4	16.1		0.0006	0.45	297	68.0			22.09	1.35	1.06	2.04	1.03	1.03	13.60
0.123	0.189	7.1	6.3	7.0	6.6				251	68.0			22.43	1.31	1.07	2.07	1.03	1.03	13.83
0.035	0.027	20.6	20.5	23.0	23.4				123	67.8			22.51	1.40	1.12	2.22	1.05	1.03	16.05
0.026	0.030	27.7	28.0	30.1	30.9		0.0001	0.21	129	67.1			22.54	1.31	1.08	2.14	1.03	1.03	14.69
0.019	0.019	28.9	29.1	30.9	32.0			0.14	116	66.6			22.25	1.32	1.07	2.06	1.03	1.03	14.26
0.031	0.032	21.9	21.8	22.8	23.2				117	66.6			18.05	1.24	1.06	1.96	1.03	1.03	13.46
0.063	0.058	12.4	11.6	11.7	11.1				109	66.6			17.42	1.31	1.07	2.03	1.05	1.03	13.69
0.102	0.059	12.0	10.8	11.3	10.6				30	66.7			17.02	1.33	1.06	2.00	1.03	1.03	12.63
0.052	0.031	20.3	19.4	19.3	18.7				328	66.7			17.01	1.35	1.07	1.95	1.03	1.03	13.72
0.025	0.023	26.6	26.8	26.8	26.4			0.10	310	67.0			17.09	1.39	1.08	2.03	1.03	1.03	14.66
0.029	0.026	26.8	28.0	28.1	28.1		0.0008	0.83	315	67.9			17.08	1.39	1.08	2.04	1.03	1.03	14.66
0.027	0.026	25.2	26.8	26.7	26.2	0.002	0.0014	1.10	309	68.0			17.19	1.42	1.08	2.15	1.03	1.03	14.01
0.047	0.042	15.7	16.1	16.2	15.0		0.0002	0.24	306	68.0			17.20	1.39	1.07	2.15	1.03	1.03	13.37
0.186	0.233	7.8	7.1	7.1	6.5				256	68.0			17.19	1.32	1.07	2.17	1.04	1.03	12.86

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0.057	0.046	18.5	18.4	20.2	20.3				145	67.8									
0.028	0.024	27.7	28.0	30.7	31.5		0.0001	0.21	129	67.5			17.47	1.36	1.09	2.14	1.03	1.03	15.21
0.031	0.032	31.4	31.7	33.8	35.0		0.0001	0.24	132	67.5									
0.026	0.037	26.4	26.5	28.1	28.7			0.04	137	67.6			17.91	1.26	1.04	1.90	1.03	1.03	13.68
0.026	0.039	19.7	19.3	20.5	20.6				101	67.4									
0.119	0.104	10.3	9.2	9.5	8.4				53	67.4			17.77	1.22	1.11	2.00	1.03	1.03	13.39
0.140	0.065	15.4	14.5	14.9	14.2				353	67.4									
0.032	0.024	23.5	23.3	23.6	22.9				326	67.6			18.16	1.33	1.07	1.92	1.03	1.03	15.73
0.027	0.022	28.0	28.5	28.7	28.6		0.0001	0.34	313	67.8									
0.028	0.027	27.1	28.7	28.8	28.4	0.001	0.0012	1.07	311	68.0			18.50	1.44	1.11	2.16	1.03	1.03	16.69
0.024	0.026	24.6	26.2	26.1	25.4	0.002	0.0015	1.10	268	68.0									
0.044	0.047	16.0	16.3	16.8	15.6		0.0002	0.21	282	68.0			18.12	1.44	1.09	2.21	1.03	1.03	14.80
0.225	0.217	9.6	8.7	8.7	8.5				234	68.0									

STABLE, Deployment 1, Holderness, UK

[illegible]

STABLE, Deployment 1, Holderness, UK

[illegible]

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17.79	10.75	7.91	6.16	5.57	46.41	17.60	9.17	5.62	3.57	2.58
15.60	9.27	6.39	4.80	4.07	41.38	15.39	7.90	4.50	2.78	2.01
14.39	8.61	6.00	4.55	3.91	36.62	13.97	7.17	4.17	2.60	1.90
14.30	8.47	6.06	4.75	4.13	36.54	14.04	7.29	4.43	2.79	2.07
16.60	9.76	6.86	5.04	4.02	48.55	17.09	8.75	5.07	3.06	2.04
19.31	11.53	8.20	6.46	5.48	55.84	20.37	10.39	6.33	4.00	2.80
19.08	11.60	8.30	6.70	6.26	54.42	19.97	10.23	6.13	4.06	3.02
20.01	11.67	8.34	6.48	5.69	60.82	22.08	10.92	6.46	4.14	2.93
16.29	9.40	6.50	4.71	3.85	50.57	17.98	8.95	5.05	3.05	2.10
17.06	10.06	6.96	5.15	4.14	52.46	18.50	9.31	5.38	3.24	2.15
15.50	9.40	6.67	5.21	4.63	43.73	16.30	8.58	5.15	3.36	2.42
18.82	11.37	8.18	6.58	5.88	52.30	19.54	10.18	6.23	4.05	2.98
22.13	13.03	9.19	7.27	6.33	60.73	22.70	11.41	6.89	4.41	3.17
19.22	11.44	7.94	6.30	5.57	52.63	19.50	9.94	5.92	3.78	2.68
18.93	11.04	7.83	6.02	5.28	51.68	18.76	9.74	5.75	3.65	2.61
18.56	11.06	7.63	5.81	4.96	51.58	18.73	9.70	5.63	3.50	2.44
16.09	10.12	7.58	6.44	5.37	42.70	16.66	8.93	5.64	4.18	2.88
19.85	11.90	8.45	6.68	5.78	57.35	21.17	10.79	6.54	4.25	3.03
25.28	15.29	11.15	9.02	8.75	70.96	26.70	13.52	8.27	5.63	4.34
24.43	14.28	10.15	8.15	7.44	71.46	26.17	13.01	7.83	5.09	3.77
20.39	11.89	8.32	6.42	5.34	64.47	22.91	11.32	6.64	4.14	2.83
23.59	13.42	9.36	6.93	5.51	72.30	25.85	12.67	7.46	4.58	2.96
17.99	10.66	7.50	5.96	4.83	50.95	19.02	9.87	5.99	3.83	2.56
21.00	12.38	8.87	7.10	6.28	60.21	22.26	11.25	6.84	4.49	3.22
23.83	14.39	10.38	8.28	7.42	65.28	24.85	12.84	7.82	5.13	3.66
23.19	13.55	9.59	7.52	7.14	64.95	23.97	12.12	7.20	4.69	3.50
18.21	10.81	7.65	5.74	5.08	50.76	18.91	9.55	5.63	3.52	2.48
18.15	10.59	7.64	5.69	4.89	49.87	18.39	9.38	5.53	3.40	2.36
16.55	10.48	7.85	6.28	5.19	44.99	16.87	9.41	5.86	3.89	2.67
18.01	10.59	7.40	5.72	4.88	53.39	19.09	9.64	5.63	3.62	2.59
25.75	14.68	10.27	7.79	6.47	75.17	27.42	13.61	7.86	4.99	3.33
26.63	15.21	10.59	8.25	7.28	77.34	28.32	13.87	8.16	5.27	3.69
25.13	14.14	9.77	7.54	6.24	76.74	27.65	13.20	7.77	4.91	3.36
22.70	12.92	8.95	6.75	5.52	70.13	24.93	12.16	7.10	4.48	3.03

STABLE, Deployment 1, Holderness, UK

18.41	10.80	8.07	6.17	5.47	58.87	20.67	10.45	6.63	4.31	3.27
20.57	12.19	8.77	6.83	6.18	60.04	21.94	11.33	6.83	4.47	3.31
22.23	13.20	9.72	7.91	7.41	62.13	23.09	11.87	7.37	4.91	3.75
23.93	14.23	10.28	8.28	7.71	65.26	24.52	12.62	7.70	5.08	3.74
19.10	11.41	8.02	6.25	5.51	52.41	19.61	10.18	6.06	3.82	2.73
16.54	9.88	6.93	5.35	4.58	43.91	16.70	8.79	5.13	3.22	2.30
15.03	8.88	6.22	4.62	3.89	40.97	15.39	7.95	4.53	2.87	2.04
17.21	10.28	7.34	5.66	4.82	50.10	18.44	9.60	5.85	3.69	2.60
23.72	13.99	9.96	7.90	6.97	69.22	25.50	12.76	7.73	5.09	3.61
26.12	15.02	10.66	8.20	7.23	74.82	27.73	13.51	8.05	5.22	3.74
26.39	15.61	10.72	8.36	7.27	76.86	28.71	14.29	8.46	5.44	3.78
20.79	11.89	8.19	6.12	4.87	65.15	22.92	11.21	6.50	3.98	2.61
19.00	11.11	7.90	6.01	5.30	59.22	20.87	10.51	6.41	4.01	2.87
21.28	12.71	9.32	7.53	6.87	61.98	23.19	12.03	7.39	4.97	3.76
22.48	13.21	9.40	7.29	6.70	63.63	23.64	11.89	7.15	4.57	3.39
23.43	14.00	10.13	8.14	7.73	63.42	24.03	12.28	7.53	5.00	3.77
19.80	11.72	8.33	6.53	6.12	53.41	20.11	10.33	6.19	3.97	2.97
17.61	10.62	7.40	5.64	4.90	47.53	18.03	9.22	5.50	3.42	2.42
16.88	9.87	6.96	5.36	4.62	48.03	17.42	8.91	5.29	3.43	2.47
18.12	10.83	7.87	6.14	5.33	54.83	19.87	10.15	6.20	4.03	2.83
22.90	13.47	9.57	7.57	6.38	69.46	25.49	12.71	7.66	4.95	3.49
22.88	13.57	9.68	7.90	7.67	67.19	24.68	12.37	7.48	4.98	3.81
29.32	16.83	11.74	9.21	8.00	84.52	31.68	15.31	9.08	5.93	4.21
24.72	14.08	10.06	7.94	6.93	76.75	27.72	13.41	8.07	5.37	3.83
20.70	12.09	8.69	6.89	6.41	66.60	23.62	11.76	7.27	4.74	3.57
19.02	11.30	8.13	6.51	6.39	56.20	20.53	10.55	6.43	4.25	3.51
20.78	12.31	8.86	6.85	6.11	58.91	21.92	11.16	6.75	4.33	3.10
23.00	13.82	10.11	8.31	8.04	62.73	23.77	12.31	7.60	5.15	3.92
22.52	13.22	9.32	7.29	6.29	60.18	22.74	11.60	6.96	4.44	3.09
19.02	11.15	7.85	5.97	5.04	49.67	19.00	9.73	5.73	3.60	2.52
18.42	11.11	7.96	6.19	5.67	49.23	18.29	9.68	5.89	3.72	2.73
16.93	10.55	7.91	6.17	5.20	46.50	17.75	9.46	5.98	3.90	2.66
17.38	10.15	7.26	5.64	4.77	50.49	18.09	9.23	5.46	3.53	2.53
20.84	12.37	8.87	7.13	6.35	61.05	22.27	11.24	6.83	4.50	3.28
21.60	12.73	8.99	7.02	6.25	64.68	23.62	11.71	6.91	4.47	3.28
23.10	13.33	9.28	7.22	6.12	71.02	25.72	12.43	7.38	4.76	3.28

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17.43	10.04	6.98	5.26	4.34	54.61	19.06	9.51	5.60	3.47	2.48
19.75	11.49	8.17	6.49	5.74	58.32	21.20	10.74	6.48	4.23	3.02
19.23	11.59	8.24	6.43	5.82	54.94	19.80	10.27	6.20	4.00	2.97
21.03	12.65	9.17	7.39	7.45	55.82	21.24	11.01	6.70	4.47	3.62
20.33	12.12	8.66	6.85	6.05	55.60	20.70	10.67	6.43	4.11	2.94
17.76	10.60	7.57	5.85	4.95	46.97	17.77	9.20	5.51	3.45	2.43
15.80	9.40	6.64	5.04	4.23	40.38	15.75	8.31	4.82	2.96	2.08
13.57	8.31	6.04	4.65	3.85	35.81	13.69	7.37	4.49	2.86	2.04
15.91	9.41	6.49	4.94	4.15	43.36	15.95	8.22	4.72	2.96	2.13
19.00	11.33	8.17	6.47	5.80	55.05	20.21	10.37	6.30	4.11	3.02
19.20	11.35	7.97	6.18	5.40	55.83	20.26	10.16	6.03	3.81	2.70
17.33	10.15	7.04	5.26	4.38	51.16	18.54	9.28	5.38	3.29	2.25
16.16	9.53	6.71	4.93	3.95	48.31	17.11	8.64	4.95	3.03	2.13
18.47	11.31	8.22	6.33	5.08	51.93	18.88	10.02	6.05	3.78	2.48
19.10	11.28	8.05	6.38	5.71	49.51	18.54	9.62	5.66	3.69	2.67
18.36	11.13	7.89	6.18	5.59	47.34	17.82	9.42	5.66	3.62	2.69
17.08	10.43	7.39	5.80	5.25	43.81	16.74	8.72	5.18	3.33	2.45
13.53	8.31	5.83	4.40	3.81	32.66	13.09	6.95	3.97	2.53	1.87
12.25	7.46	5.19	3.83	3.21	27.60	11.47	6.03	3.55	2.17	1.65
10.20	5.96	3.98	2.87	2.40	22.71	9.55	4.90	2.75	1.84	1.47
12.87	7.78	5.41	3.98	3.26	30.86	12.07	6.24	3.61	2.26	1.69
15.37	9.30	6.64	5.15	4.43	40.50	15.43	8.12	4.86	3.13	2.24
17.46	10.71	7.83	6.53	6.34	45.95	17.90	9.54	5.81	3.93	3.13
15.00	8.83	5.98	4.44	3.72	41.92	15.60	7.96	4.50	2.74	1.95
13.88	8.01	5.48	4.04	3.11	38.28	14.16	7.21	4.05	2.45	1.73
12.64	7.51	5.10	3.66	2.72	35.33	12.90	6.56	3.81	2.26	1.64
11.77	7.07	4.89	3.76	3.50	28.32	11.59	6.10	3.46	2.22	1.78
14.96	9.10	6.64	5.28	4.94	36.90	14.58	7.81	4.70	3.09	2.39
15.59	9.50	6.78	5.38	5.04	38.60	15.25	8.07	4.77	3.08	2.36
13.60	8.22	5.73	4.27	3.56	32.95	13.14	6.86	3.98	2.48	1.80
11.44	6.77	4.58	3.29	2.75	25.80	10.87	5.63	3.16	1.97	1.53
9.07	5.12	3.39	2.38	1.93	19.19	8.73	4.38	2.38	1.66	1.38
8.61	4.96	3.24	2.26	1.83	19.07	8.15	4.11	2.31	1.58	1.38
11.78	6.99	4.81	3.69	3.16	28.25	11.33	5.91	3.42	2.21	1.73
13.96	8.35	5.90	4.68	4.34	36.70	14.22	7.40	4.33	2.84	2.18
14.07	8.33	5.73	4.25	3.47	37.30	14.40	7.39	4.21	2.56	1.84

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12.91	7.42	5.02	3.66	2.84	33.78	12.94	6.60	3.61	2.20	1.63
10.01	5.76	3.89	2.71	1.99	24.60	10.10	5.05	2.75	1.77	1.40
9.88	5.82	3.89	2.80	2.36	21.94	9.57	4.97	2.78	1.81	1.47
12.80	7.75	5.46	4.21	3.68	29.64	12.13	6.42	3.74	2.42	1.84
14.03	8.79	6.33	5.00	4.86	32.24	13.58	7.36	4.35	2.90	2.24
12.11	7.43	5.22	4.09	3.68	27.72	11.77	6.25	3.64	2.37	1.83
10.28	6.16	4.16	3.08	2.60	22.70	9.92	5.16	2.90	1.89	1.51
8.91	5.20	3.37	2.39	1.87	18.87	8.51	4.25	2.38	1.62	1.38
6.99	3.93	2.63	1.96	1.61	14.42	6.66	3.37	2.02	1.49	1.34
8.73	5.18	3.49	2.63	2.24	18.69	8.29	4.27	2.45	1.71	1.46
11.91	7.40	5.27	4.19	3.93	28.85	11.99	6.51	3.89	2.61	2.10
13.03	7.76	5.28	3.79	3.04	32.93	13.23	6.80	3.86	2.33	1.69
10.08	5.89	3.86	2.77	2.25	26.17	10.66	5.33	2.94	1.84	1.47
8.87	4.96	3.22	2.26	1.78	21.91	9.18	4.57	2.48	1.65	1.38
7.95	4.50	2.97	2.10	1.70	19.20	8.25	4.10	2.26	1.58	1.36
9.00	5.45	3.71	2.78	2.45	21.12	9.11	4.79	2.73	1.85	1.51
12.29	7.49	5.39	4.29	3.89	28.50	12.09	6.50	3.89	2.55	1.95
11.54	7.00	4.90	3.65	3.15	26.31	11.18	5.94	3.38	2.18	1.68
9.68	5.80	3.98	3.00	2.65	21.75	9.51	4.94	2.85	1.89	1.55
7.69	4.39	2.87	2.11	1.77	17.35	7.63	3.80	2.14	1.53	1.36
7.02	3.74	2.55	1.85	1.49	15.98	6.89	3.29	1.94	1.42	1.34
6.85	3.84	2.52	1.87	1.58	15.09	6.62	3.28	1.91	1.46	1.34
9.14	5.34	3.55	2.55	2.18	21.32	8.97	4.61	2.55	1.72	1.45
9.53	5.52	3.69	2.68	2.34	22.70	9.57	4.78	2.68	1.78	1.49
8.33	4.83	3.13	2.26	1.87	20.12	8.41	4.20	2.31	1.60	1.39
6.83	3.74	2.55	1.87	1.50	15.79	6.85	3.37	1.94	1.45	1.33
6.43	3.61	2.34	1.75	1.47	14.22	6.30	3.11	1.87	1.41	1.33
6.53	3.84	2.66	2.09	1.88	13.42	6.25	3.24	2.00	1.52	1.38
10.15	6.47	4.75	3.98	3.63	21.81	9.74	5.36	3.31	2.31	1.84
10.26	6.21	4.31	3.34	3.01	21.95	9.65	5.02	2.94	1.98	1.60
9.20	5.44	3.73	2.73	2.29	19.23	8.50	4.40	2.49	1.69	1.43
7.42	4.27	2.76	1.99	1.65	15.89	7.00	3.53	1.99	1.47	1.34
6.78	3.76	2.43	1.82	1.50	13.79	6.12	2.99	1.84	1.43	1.33
5.68	3.14	2.10	1.61	1.42	12.14	5.49	2.68	1.67	1.37	1.33
7.79	4.48	2.96	2.22	2.01	16.87	7.39	3.68	2.12	1.57	1.40
8.27	4.79	3.22	2.54	2.42	18.67	8.21	4.20	2.38	1.73	1.52

STABLE, Deployment 1, Holderness, UK

7.80	4.37	2.84	2.08	1.77	18.14	7.81	3.85	2.13	1.53	1.37
6.79	3.70	2.42	1.83	1.52	15.64	6.78	3.30	1.89	1.44	1.34
5.79	3.17	2.11	1.63	1.41	13.58	5.92	2.91	1.78	1.40	1.33
5.36	3.04	2.07	1.61	1.46	11.99	5.36	2.71	1.71	1.38	1.33
7.22	4.26	2.99	2.31	2.10	15.50	7.11	3.67	2.19	1.60	1.42
9.13	5.58	3.97	3.15	2.92	19.96	8.81	4.64	2.73	1.92	1.59
9.16	5.57	3.82	2.96	2.71	19.68	8.67	4.52	2.61	1.83	1.55
8.28	4.88	3.28	2.41	2.01	17.71	7.71	3.89	2.22	1.57	1.38
6.71	3.74	2.43	1.80	1.51	14.61	6.52	3.10	1.84	1.41	1.34
5.93	3.36	2.24	1.67	1.46	12.50	5.56	2.80	1.72	1.38	1.33
7.24	4.17	2.74	2.03	1.81	15.30	6.78	3.36	1.97	1.48	1.37
9.01	5.42	3.73	2.83	2.63	19.88	8.76	4.56	2.63	1.84	1.56
8.13	4.77	3.10	2.31	1.95	18.69	8.07	4.05	2.28	1.60	1.40
7.05	3.87	2.52	1.87	1.59	15.67	6.83	3.34	1.91	1.45	1.34
6.17	3.49	2.34	1.72	1.44	13.08	5.84	2.98	1.80	1.40	1.33
5.34	3.06	2.09	1.59	1.43	10.94	5.03	2.64	1.65	1.38	1.33
6.30	3.81	2.65	2.09	1.89	12.26	5.93	3.12	1.95	1.50	1.38
8.53	5.15	3.56	2.78	2.50	17.19	7.88	4.14	2.40	1.73	1.48
8.27	4.84	3.26	2.44	2.04	16.36	7.33	3.72	2.15	1.56	1.38
7.04	4.13	2.73	2.01	1.73	14.12	6.25	3.16	1.87	1.44	1.34
5.60	3.08	2.04	1.57	1.41	11.53	5.10	2.47	1.58	1.36	1.33
5.19	2.86	2.00	1.60	1.39	10.51	4.68	2.33	1.54	1.35	1.33
5.70	3.30	2.23	1.72	1.52	11.90	5.29	2.62	1.67	1.39	1.33
7.14	4.24	2.86	2.25	2.17	15.40	6.85	3.54	2.06	1.58	1.44
7.63	4.42	2.94	2.19	1.89	16.85	7.41	3.71	2.13	1.55	1.38
6.34	3.56	2.30	1.77	1.57	14.38	6.31	3.09	1.81	1.43	1.34
5.38	2.91	1.98	1.56	1.40	12.59	5.40	2.63	1.64	1.37	1.33
5.02	2.89	1.98	1.53	1.37	11.26	5.09	2.53	1.64	1.38	1.33
5.25	2.96	2.04	1.59	1.44	11.12	5.11	2.59	1.65	1.37	1.33
7.08	4.18	2.90	2.20	1.95	15.16	6.90	3.55	2.10	1.56	1.39
7.95	4.67	3.21	2.43	2.12	17.14	7.49	3.87	2.24	1.62	1.43
7.21	4.17	2.79	2.14	1.83	15.21	6.63	3.36	1.98	1.48	1.36
6.43	3.63	2.42	1.83	1.56	13.54	5.84	2.87	1.75	1.40	1.33
5.47	2.91	1.98	1.54	1.38	11.70	5.02	2.47	1.54	1.35	1.33
4.66	2.65	1.90	1.49	1.38	10.13	4.30	2.20	1.51	1.34	1.33
6.27	3.54	2.38	1.85	1.70	13.08	5.72	2.88	1.76	1.42	1.34

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6.59	3.70	2.41	1.85	1.64	13.90	6.11	3.02	1.79	1.41	1.34
5.53	3.07	2.08	1.62	1.48	12.36	5.35	2.61	1.63	1.37	1.33
4.81	2.65	1.89	1.50	1.36	10.77	4.60	2.30	1.51	1.35	1.33
4.65	2.58	1.84	1.44	1.35	9.97	4.32	2.22	1.50	1.34	1.33
4.36	2.44	1.78	1.45	1.37	9.34	4.15	2.13	1.49	1.34	1.33
5.94	3.43	2.39	1.86	1.66	12.08	5.43	2.74	1.75	1.41	1.34
7.10	4.13	2.83	2.15	1.86	14.47	6.40	3.18	1.95	1.48	1.36
6.10	3.52	2.38	1.83	1.63	12.14	5.44	2.67	1.69	1.39	1.34
4.96	2.80	1.93	1.56	1.41	10.57	4.46	2.23	1.51	1.35	1.33
4.75	2.59	1.82	1.45	1.35	9.46	4.31	2.14	1.46	1.34	1.33
4.16	2.36	1.71	1.42	1.34	8.83	3.79	2.00	1.42	1.34	1.33
4.94	2.82	2.04	1.65	1.52	10.47	4.57	2.33	1.57	1.37	1.34
5.22	2.93	2.04	1.68	1.83	11.85	5.09	2.54	1.64	1.39	1.38
5.44	3.02	2.04	1.63	1.50	12.39	5.34	2.62	1.64	1.38	1.33
4.95	2.66	1.86	1.50	1.39	11.73	5.01	2.36	1.55	1.35	1.33
4.21	2.38	1.74	1.43	1.34	10.31	4.29	2.16	1.47	1.34	1.33
4.15	2.31	1.71	1.43	1.35	9.89	4.22	2.13	1.47	1.34	1.33
5.09	2.83	1.99	1.59	1.45	11.38	4.97	2.47	1.59	1.37	1.33
6.41	3.73	2.59	2.05	1.88	14.25	6.17	3.14	1.91	1.49	1.38
6.24	3.59	2.40	1.84	1.63	13.67	5.88	2.90	1.77	1.42	1.34
6.29	3.55	2.37	1.84	1.61	13.16	5.69	2.75	1.72	1.40	1.34
5.35	3.04	1.99	1.57	1.41	11.88	5.05	2.41	1.56	1.35	1.33
4.82	2.69	1.84	1.47	1.35	10.68	4.50	2.27	1.49	1.34	1.33
4.66	2.63	1.84	1.48	1.37	10.45	4.46	2.22	1.50	1.34	1.33
6.02	3.41	2.33	1.83	1.59	12.61	5.52	2.74	1.75	1.41	1.34
5.30	2.94	2.01	1.61	1.47	11.85	5.02	2.43	1.59	1.37	1.33
5.07	2.71	1.88	1.51	1.39	11.51	4.81	2.31	1.53	1.35	1.33
4.54	2.44	1.79	1.45	1.34	10.52	4.33	2.12	1.47	1.34	1.33
4.37	2.44	1.69	1.41	1.34	10.12	4.22	2.07	1.47	1.34	1.33
4.42	2.48	1.78	1.49	1.39	9.69	4.22	2.14	1.49	1.34	1.33
5.23	2.92	2.03	1.63	1.50	11.02	4.90	2.43	1.59	1.37	1.33
5.36	3.03	2.13	1.73	1.55	11.37	4.87	2.42	1.60	1.37	1.33
5.45	3.06	2.13	1.67	1.50	11.23	4.87	2.37	1.57	1.36	1.33
5.14	2.89	1.95	1.56	1.42	10.99	4.58	2.28	1.52	1.34	1.33
4.72	2.62	1.84	1.47	1.36	10.22	4.35	2.13	1.47	1.34	1.33
4.46	2.52	1.79	1.46	1.36	9.95	4.14	2.08	1.47	1.33	1.33

STABLE, Deployment 1, Holderness, UK

5.44	3.04	2.09	1.65	1.48	12.95	5.40	2.65	1.64	1.38	1.34
4.52	2.45	1.78	1.46	1.36	11.39	4.69	2.26	1.51	1.34	1.33
4.22	2.37	1.72	1.43	1.34	10.54	4.36	2.13	1.46	1.33	1.33
5.50	3.10	2.12	1.69	1.54	12.63	5.36	2.63	1.65	1.38	1.33
5.99	3.37	2.26	1.77	1.55	12.95	5.54	2.66	1.67	1.38	1.33
5.07	2.85	1.96	1.50	1.38	10.94	4.76	2.29	1.52	1.34	1.33